

APPENDIX H

RI LABORATORY DATA

PART 1

L1034970-L1072936

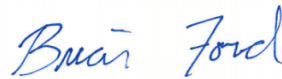
October 23, 2018

PES Environmental, Inc.- WA

Sample Delivery Group: L1034970
Samples Received: 10/16/2018
Project Number: 1413.001.05
Description: American Linen

Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford
Project Manager

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 Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	8
Sr: Sample Results	9
B-249-5 L1034970-01	9
B-249-8 L1034970-02	11
B-249-15 L1034970-03	13
B-249-17 L1034970-04	15
B-249-20 L1034970-05	17
B-250-2.5 L1034970-06	19
B-250-8 L1034970-07	21
B-250-10 L1034970-08	23
B-250-13 L1034970-09	25
B-250-20 L1034970-10	27
B-250-24 L1034970-11	29
B-251-5 L1034970-12	31
B-251-8 L1034970-13	33
B-251-10 L1034970-14	35
B-251-15 L1034970-15	37
B-251-20 L1034970-16	39
B-251-25 L1034970-17	41
B-252-2.5 L1034970-18	43
B-252-10 L1034970-19	45
B-252-8 L1034970-20	47
B-252-15 L1034970-21	49
B-252-19 L1034970-22	51
B-252-25 L1034970-23	53
B-252-29 L1034970-24	55
TRIP BLANK L1034970-25	57
Qc: Quality Control Summary	59
Total Solids by Method 2540 G-2011	59
Volatile Organic Compounds (GC/MS) by Method 8260C	63
Gl: Glossary of Terms	89
Al: Accreditations & Locations	90
Sc: Sample Chain of Custody	91

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B-249-5 L1034970-01 Solid

			Collected by KS/RM	Collected date/time 10/15/18 09:20	Received date/time 10/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1183341	1	10/19/18 15:05	10/19/18 15:14	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1182742	1	10/15/18 09:20	10/18/18 15:48	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184188	1	10/15/18 09:20	10/21/18 13:56	ACG

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

B-249-8 L1034970-02 Solid

			Collected by KS/RM	Collected date/time 10/15/18 09:20	Received date/time 10/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1183341	1	10/19/18 15:05	10/19/18 15:14	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1182742	1	10/15/18 09:20	10/18/18 16:08	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184188	1	10/15/18 09:20	10/21/18 14:16	ACG

B-249-15 L1034970-03 Solid

			Collected by KS/RM	Collected date/time 10/15/18 09:35	Received date/time 10/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1183341	1	10/19/18 15:05	10/19/18 15:14	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1182742	1	10/15/18 09:35	10/18/18 16:28	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184188	8	10/15/18 09:35	10/21/18 16:15	ACG

B-249-17 L1034970-04 Solid

			Collected by KS/RM	Collected date/time 10/15/18 09:48	Received date/time 10/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1183341	1	10/19/18 15:05	10/19/18 15:14	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1182742	1	10/15/18 09:48	10/18/18 16:48	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184188	40	10/15/18 09:48	10/21/18 16:35	ACG

B-249-20 L1034970-05 Solid

			Collected by KS/RM	Collected date/time 10/15/18 09:45	Received date/time 10/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1181703	1	10/16/18 14:18	10/16/18 14:25	KS
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1181654	1	10/15/18 09:45	10/16/18 19:01	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1182096	700	10/15/18 09:45	10/17/18 13:12	DWR

B-250-2.5 L1034970-06 Solid

			Collected by KS/RM	Collected date/time 10/15/18 10:00	Received date/time 10/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1183341	1	10/19/18 15:05	10/19/18 15:14	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1182742	1	10/15/18 10:00	10/18/18 17:07	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184188	1	10/15/18 10:00	10/21/18 14:36	ACG

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B-250-8 L1034970-07 Solid

			Collected by KS/RM	Collected date/time 10/15/18 10:12	Received date/time 10/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1183343	1	10/19/18 13:37	10/19/18 13:51	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1182742	1	10/15/18 10:12	10/18/18 17:27	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184188	8	10/15/18 10:12	10/21/18 16:55	ACG

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

B-250-10 L1034970-08 Solid

			Collected by KS/RM	Collected date/time 10/15/18 10:10	Received date/time 10/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1183343	1	10/19/18 13:37	10/19/18 13:51	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1182742	1	10/15/18 10:10	10/18/18 17:47	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184188	80	10/15/18 10:10	10/21/18 17:15	ACG

B-250-13 L1034970-09 Solid

			Collected by KS/RM	Collected date/time 10/15/18 10:30	Received date/time 10/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1183343	1	10/19/18 13:37	10/19/18 13:51	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1182742	1	10/15/18 10:30	10/18/18 18:07	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184188	80	10/15/18 10:30	10/21/18 17:35	ACG

B-250-20 L1034970-10 Solid

			Collected by KS/RM	Collected date/time 10/15/18 10:40	Received date/time 10/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1183343	1	10/19/18 13:37	10/19/18 13:51	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1182742	1	10/15/18 10:40	10/18/18 18:27	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184188	40	10/15/18 10:40	10/21/18 17:55	ACG

B-250-24 L1034970-11 Solid

			Collected by KS/RM	Collected date/time 10/15/18 11:20	Received date/time 10/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1181703	1	10/16/18 14:18	10/16/18 14:25	KS
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1181654	1	10/15/18 11:20	10/16/18 19:21	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1182096	670	10/15/18 11:20	10/17/18 13:32	DWR

B-251-5 L1034970-12 Solid

			Collected by KS/RM	Collected date/time 10/15/18 12:35	Received date/time 10/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1183343	1	10/19/18 13:37	10/19/18 13:51	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1182742	1	10/15/18 12:35	10/18/18 18:47	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184188	1	10/15/18 12:35	10/21/18 14:55	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184438	1	10/15/18 12:35	10/22/18 11:39	JAH

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B-251-8 L1034970-13 Solid

			Collected by KS/RM	Collected date/time 10/15/18 12:45	Received date/time 10/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1183343	1	10/19/18 13:37	10/19/18 13:51	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183157	1	10/15/18 12:45	10/19/18 21:50	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184604	1	10/15/18 12:45	10/22/18 16:23	BMB

¹ Cp

² Tc

³ Ss

B-251-10 L1034970-14 Solid

			Collected by KS/RM	Collected date/time 10/15/18 12:42	Received date/time 10/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1183343	1	10/19/18 13:37	10/19/18 13:51	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183157	1	10/15/18 12:42	10/19/18 22:11	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184604	40	10/15/18 12:42	10/22/18 20:23	BMB

⁴ Cn

⁵ Sr

⁶ Qc

B-251-15 L1034970-15 Solid

			Collected by KS/RM	Collected date/time 10/15/18 12:55	Received date/time 10/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1183343	1	10/19/18 13:37	10/19/18 13:51	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183157	1	10/15/18 12:55	10/19/18 22:31	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184604	40	10/15/18 12:55	10/22/18 20:44	BMB

⁷ Gl

⁸ Al

⁹ Sc

B-251-20 L1034970-16 Solid

			Collected by KS/RM	Collected date/time 10/15/18 12:57	Received date/time 10/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1183343	1	10/19/18 13:37	10/19/18 13:51	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183157	1	10/15/18 12:57	10/19/18 22:52	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184604	40	10/15/18 12:57	10/22/18 21:03	BMB

B-251-25 L1034970-17 Solid

			Collected by KS/RM	Collected date/time 10/15/18 13:20	Received date/time 10/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1181703	1	10/16/18 14:18	10/16/18 14:25	KS
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1181654	1	10/15/18 13:20	10/16/18 19:40	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1182096	830	10/15/18 13:20	10/17/18 13:52	DWR

B-252-2.5 L1034970-18 Solid

			Collected by KS/RM	Collected date/time 10/15/18 14:15	Received date/time 10/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1183343	1	10/19/18 13:37	10/19/18 13:51	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183157	1	10/15/18 14:15	10/19/18 23:12	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184604	1	10/15/18 14:15	10/22/18 16:44	BMB

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B-252-10 L1034970-19 Solid

			Collected by KS/RM	Collected date/time 10/15/18 14:27	Received date/time 10/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1183344	1	10/22/18 09:38	10/22/18 09:45	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183157	1	10/15/18 14:27	10/19/18 23:33	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184604	1	10/15/18 14:27	10/22/18 17:04	BMB

¹ Cp

² Tc

³ Ss

B-252-8 L1034970-20 Solid

			Collected by KS/RM	Collected date/time 10/15/18 14:25	Received date/time 10/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1183344	1	10/22/18 09:38	10/22/18 09:45	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183157	1	10/15/18 14:25	10/19/18 23:54	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184604	1	10/15/18 14:25	10/22/18 17:24	BMB

⁴ Cn

⁵ Sr

⁶ Qc

B-252-15 L1034970-21 Solid

			Collected by KS/RM	Collected date/time 10/15/18 14:35	Received date/time 10/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1183344	1	10/22/18 09:38	10/22/18 09:45	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183157	1	10/15/18 14:35	10/20/18 00:14	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184604	20	10/15/18 14:35	10/22/18 21:23	BMB

⁷ Gl

⁸ Al

⁹ Sc

B-252-19 L1034970-22 Solid

			Collected by KS/RM	Collected date/time 10/15/18 14:43	Received date/time 10/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1183344	1	10/22/18 09:38	10/22/18 09:45	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183157	1	10/15/18 14:43	10/20/18 00:35	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184604	10	10/15/18 14:43	10/22/18 21:43	BMB

B-252-25 L1034970-23 Solid

			Collected by KS/RM	Collected date/time 10/15/18 14:50	Received date/time 10/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1183344	1	10/22/18 09:38	10/22/18 09:45	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183157	1	10/15/18 14:50	10/20/18 00:55	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184604	4	10/15/18 14:50	10/22/18 22:03	BMB

B-252-29 L1034970-24 Solid

			Collected by KS/RM	Collected date/time 10/15/18 15:24	Received date/time 10/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1181703	1	10/16/18 14:18	10/16/18 14:25	KS
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1181654	1	10/15/18 15:24	10/16/18 20:00	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1182096	175	10/15/18 15:24	10/17/18 12:52	DWR

TRIP BLANK L1034970-25 GW

			Collected by KS/RM	Collected date/time 10/15/18 00:00	Received date/time 10/16/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1181551	1	10/16/18 13:36	10/16/18 13:36	TJJ

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, 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
Project Manager

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	95.7		1	10/19/2018 15:14	WG1183341

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0143	0.0261	1	10/21/2018 13:56	WG1184188
Acrylonitrile	U		0.00199	0.0131	1	10/18/2018 15:48	WG1182742
Benzene	U		0.000418	0.00105	1	10/18/2018 15:48	WG1182742
Bromobenzene	U		0.00110	0.0131	1	10/18/2018 15:48	WG1182742
Bromodichloromethane	U		0.000823	0.00261	1	10/18/2018 15:48	WG1182742
Bromochloromethane	U		0.00118	0.00523	1	10/18/2018 15:48	WG1182742
Bromoform	U		0.00625	0.0261	1	10/18/2018 15:48	WG1182742
Bromomethane	U		0.00387	0.0131	1	10/18/2018 15:48	WG1182742
n-Butylbenzene	U		0.00401	0.0131	1	10/18/2018 15:48	WG1182742
sec-Butylbenzene	U		0.00264	0.0131	1	10/18/2018 15:48	WG1182742
tert-Butylbenzene	U		0.00162	0.00523	1	10/18/2018 15:48	WG1182742
Carbon disulfide	U		0.00424	0.0131	1	10/18/2018 15:48	WG1182742
Carbon tetrachloride	U		0.00113	0.00523	1	10/18/2018 15:48	WG1182742
Chlorobenzene	U		0.000599	0.00261	1	10/18/2018 15:48	WG1182742
Chlorodibromomethane	U		0.000470	0.00261	1	10/18/2018 15:48	WG1182742
Chloroethane	U		0.00113	0.00523	1	10/18/2018 15:48	WG1182742
Chloroform	0.000568	J	0.000434	0.00261	1	10/18/2018 15:48	WG1182742
Chloromethane	U		0.00145	0.0131	1	10/18/2018 15:48	WG1182742
2-Chlorotoluene	U		0.000961	0.00261	1	10/18/2018 15:48	WG1182742
4-Chlorotoluene	U		0.00118	0.00523	1	10/18/2018 15:48	WG1182742
1,2-Dibromo-3-Chloropropane	U		0.00533	0.0261	1	10/18/2018 15:48	WG1182742
1,2-Dibromoethane	U		0.000549	0.00261	1	10/18/2018 15:48	WG1182742
Dibromomethane	U	J4	0.00105	0.00523	1	10/18/2018 15:48	WG1182742
1,2-Dichlorobenzene	U		0.00152	0.00523	1	10/18/2018 15:48	WG1182742
1,3-Dichlorobenzene	U		0.00178	0.00523	1	10/18/2018 15:48	WG1182742
1,4-Dichlorobenzene	U		0.00206	0.00523	1	10/18/2018 15:48	WG1182742
Dichlorodifluoromethane	U		0.000855	0.00261	1	10/18/2018 15:48	WG1182742
1,1-Dichloroethane	U		0.000601	0.00261	1	10/18/2018 15:48	WG1182742
1,2-Dichloroethane	U		0.000496	0.00261	1	10/18/2018 15:48	WG1182742
1,1-Dichloroethene	U		0.000523	0.00261	1	10/18/2018 15:48	WG1182742
cis-1,2-Dichloroethene	0.0102		0.000721	0.00261	1	10/18/2018 15:48	WG1182742
trans-1,2-Dichloroethene	U		0.00149	0.00523	1	10/18/2018 15:48	WG1182742
1,2-Dichloropropane	U		0.00133	0.00523	1	10/18/2018 15:48	WG1182742
1,1-Dichloropropene	U		0.000732	0.00261	1	10/18/2018 15:48	WG1182742
1,3-Dichloropropane	U		0.00183	0.00523	1	10/18/2018 15:48	WG1182742
cis-1,3-Dichloropropene	U		0.000709	0.00261	1	10/18/2018 15:48	WG1182742
trans-1,3-Dichloropropene	U		0.00160	0.00523	1	10/18/2018 15:48	WG1182742
trans-1,4-Dichloro-2-butene	U		0.00146	0.00523	1	10/18/2018 15:48	WG1182742
2,2-Dichloropropane	U		0.000829	0.00261	1	10/18/2018 15:48	WG1182742
Di-isopropyl ether	U		0.000366	0.00105	1	10/18/2018 15:48	WG1182742
Ethylbenzene	U		0.000554	0.00261	1	10/18/2018 15:48	WG1182742
Hexachloro-1,3-butadiene	U		0.0133	0.0261	1	10/18/2018 15:48	WG1182742
2-Hexanone	U		0.0105	0.0261	1	10/18/2018 15:48	WG1182742
n-Hexane	0.00139	J	0.00111	0.00523	1	10/18/2018 15:48	WG1182742
Iodomethane	U		0.00632	0.0131	1	10/18/2018 15:48	WG1182742
Isopropylbenzene	U		0.000902	0.00261	1	10/18/2018 15:48	WG1182742
p-Isopropyltoluene	U		0.00243	0.00523	1	10/18/2018 15:48	WG1182742
2-Butanone (MEK)	U		0.0131	0.0261	1	10/18/2018 15:48	WG1182742
Methylene Chloride	U		0.00694	0.0261	1	10/18/2018 15:48	WG1182742
4-Methyl-2-pentanone (MIBK)	U		0.0105	0.0261	1	10/18/2018 15:48	WG1182742

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/15/18 09:20

L1034970

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000308	0.00105	1	10/18/2018 15:48	WG1182742
Naphthalene	U		0.00326	0.0131	1	10/18/2018 15:48	WG1182742
n-Propylbenzene	U		0.00123	0.00523	1	10/18/2018 15:48	WG1182742
Styrene	U		0.00285	0.0131	1	10/18/2018 15:48	WG1182742
1,1,1,2-Tetrachloroethane	U		0.000523	0.00261	1	10/18/2018 15:48	WG1182742
1,1,2,2-Tetrachloroethane	U		0.000408	0.00261	1	10/18/2018 15:48	WG1182742
1,1,2-Trichlorotrifluoroethane	U		0.000705	0.00261	1	10/18/2018 15:48	WG1182742
Tetrachloroethene	0.122	J4	0.000732	0.00261	1	10/18/2018 15:48	WG1182742
Toluene	U		0.00131	0.00523	1	10/18/2018 15:48	WG1182742
1,2,3-Trichlorobenzene	U		0.000653	0.00261	1	10/18/2018 15:48	WG1182742
1,2,4-Trichlorobenzene	U		0.00504	0.0131	1	10/18/2018 15:48	WG1182742
1,1,1-Trichloroethane	U		0.000287	0.00261	1	10/18/2018 15:48	WG1182742
1,1,2-Trichloroethane	U	J4	0.000923	0.00261	1	10/18/2018 15:48	WG1182742
Trichloroethene	0.0109		0.000418	0.00105	1	10/18/2018 15:48	WG1182742
Trichlorofluoromethane	U		0.000523	0.00261	1	10/18/2018 15:48	WG1182742
1,2,3-Trichloropropane	U		0.00533	0.0131	1	10/18/2018 15:48	WG1182742
1,2,4-Trimethylbenzene	U	J4	0.00121	0.00523	1	10/18/2018 15:48	WG1182742
1,2,3-Trimethylbenzene	U		0.00120	0.00523	1	10/18/2018 15:48	WG1182742
1,3,5-Trimethylbenzene	U		0.00113	0.00523	1	10/18/2018 15:48	WG1182742
Vinyl acetate	U		0.00368	0.0131	1	10/18/2018 15:48	WG1182742
Vinyl chloride	U		0.000714	0.00261	1	10/18/2018 15:48	WG1182742
Xylenes, Total	U		0.00500	0.00679	1	10/18/2018 15:48	WG1182742
(S) Toluene-d8	117			75.0-131		10/18/2018 15:48	WG1182742
(S) Toluene-d8	100			75.0-131		10/21/2018 13:56	WG1184188
(S) Dibromofluoromethane	79.3			65.0-129		10/18/2018 15:48	WG1182742
(S) Dibromofluoromethane	112			65.0-129		10/21/2018 13:56	WG1184188
(S) 4-Bromofluorobenzene	88.7			67.0-138		10/18/2018 15:48	WG1182742
(S) 4-Bromofluorobenzene	117			67.0-138		10/21/2018 13:56	WG1184188

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	88.6		1	10/19/2018 15:14	WG1183341

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0155	0.0282	1	10/21/2018 14:16	WG1184188
Acrylonitrile	U		0.00214	0.0141	1	10/18/2018 16:08	WG1182742
Benzene	U		0.000451	0.00113	1	10/18/2018 16:08	WG1182742
Bromobenzene	U		0.00118	0.0141	1	10/18/2018 16:08	WG1182742
Bromodichloromethane	U		0.000889	0.00282	1	10/18/2018 16:08	WG1182742
Bromochloromethane	U		0.00128	0.00564	1	10/18/2018 16:08	WG1182742
Bromoform	U		0.00675	0.0282	1	10/18/2018 16:08	WG1182742
Bromomethane	U		0.00418	0.0141	1	10/18/2018 16:08	WG1182742
n-Butylbenzene	U		0.00433	0.0141	1	10/18/2018 16:08	WG1182742
sec-Butylbenzene	U		0.00285	0.0141	1	10/18/2018 16:08	WG1182742
tert-Butylbenzene	U		0.00175	0.00564	1	10/18/2018 16:08	WG1182742
Carbon disulfide	U		0.00458	0.0141	1	10/18/2018 16:08	WG1182742
Carbon tetrachloride	U		0.00122	0.00564	1	10/18/2018 16:08	WG1182742
Chlorobenzene	U		0.000647	0.00282	1	10/18/2018 16:08	WG1182742
Chlorodibromomethane	U		0.000508	0.00282	1	10/18/2018 16:08	WG1182742
Chloroethane	U		0.00122	0.00564	1	10/18/2018 16:08	WG1182742
Chloroform	0.000675	J	0.000468	0.00282	1	10/18/2018 16:08	WG1182742
Chloromethane	U		0.00157	0.0141	1	10/18/2018 16:08	WG1182742
2-Chlorotoluene	U		0.00104	0.00282	1	10/18/2018 16:08	WG1182742
4-Chlorotoluene	U		0.00128	0.00564	1	10/18/2018 16:08	WG1182742
1,2-Dibromo-3-Chloropropane	U		0.00576	0.0282	1	10/18/2018 16:08	WG1182742
1,2-Dibromoethane	U		0.000592	0.00282	1	10/18/2018 16:08	WG1182742
Dibromomethane	U	J4	0.00113	0.00564	1	10/18/2018 16:08	WG1182742
1,2-Dichlorobenzene	U		0.00164	0.00564	1	10/18/2018 16:08	WG1182742
1,3-Dichlorobenzene	U		0.00192	0.00564	1	10/18/2018 16:08	WG1182742
1,4-Dichlorobenzene	U		0.00222	0.00564	1	10/18/2018 16:08	WG1182742
Dichlorodifluoromethane	U		0.000923	0.00282	1	10/18/2018 16:08	WG1182742
1,1-Dichloroethane	U		0.000649	0.00282	1	10/18/2018 16:08	WG1182742
1,2-Dichloroethane	U		0.000536	0.00282	1	10/18/2018 16:08	WG1182742
1,1-Dichloroethene	U		0.000564	0.00282	1	10/18/2018 16:08	WG1182742
cis-1,2-Dichloroethene	0.0287		0.000779	0.00282	1	10/18/2018 16:08	WG1182742
trans-1,2-Dichloroethene	U		0.00161	0.00564	1	10/18/2018 16:08	WG1182742
1,2-Dichloropropane	U		0.00143	0.00564	1	10/18/2018 16:08	WG1182742
1,1-Dichloropropene	U		0.000790	0.00282	1	10/18/2018 16:08	WG1182742
1,3-Dichloropropane	U		0.00197	0.00564	1	10/18/2018 16:08	WG1182742
cis-1,3-Dichloropropene	U		0.000765	0.00282	1	10/18/2018 16:08	WG1182742
trans-1,3-Dichloropropene	U		0.00173	0.00564	1	10/18/2018 16:08	WG1182742
trans-1,4-Dichloro-2-butene	U		0.00158	0.00564	1	10/18/2018 16:08	WG1182742
2,2-Dichloropropane	U		0.000895	0.00282	1	10/18/2018 16:08	WG1182742
Di-isopropyl ether	U		0.000395	0.00113	1	10/18/2018 16:08	WG1182742
Ethylbenzene	U		0.000598	0.00282	1	10/18/2018 16:08	WG1182742
Hexachloro-1,3-butadiene	U		0.0143	0.0282	1	10/18/2018 16:08	WG1182742
2-Hexanone	U		0.0113	0.0282	1	10/18/2018 16:08	WG1182742
n-Hexane	U		0.00120	0.00564	1	10/18/2018 16:08	WG1182742
Iodomethane	U		0.00683	0.0141	1	10/18/2018 16:08	WG1182742
Isopropylbenzene	U		0.000974	0.00282	1	10/18/2018 16:08	WG1182742
p-Isopropyltoluene	U		0.00263	0.00564	1	10/18/2018 16:08	WG1182742
2-Butanone (MEK)	U		0.0141	0.0282	1	10/18/2018 16:08	WG1182742
Methylene Chloride	U		0.00749	0.0282	1	10/18/2018 16:08	WG1182742
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0282	1	10/18/2018 16:08	WG1182742

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/15/18 09:20

L1034970

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000333	0.00113	1	10/18/2018 16:08	WG1182742
Naphthalene	U		0.00352	0.0141	1	10/18/2018 16:08	WG1182742
n-Propylbenzene	U		0.00133	0.00564	1	10/18/2018 16:08	WG1182742
Styrene	U		0.00308	0.0141	1	10/18/2018 16:08	WG1182742
1,1,1,2-Tetrachloroethane	U		0.000564	0.00282	1	10/18/2018 16:08	WG1182742
1,1,2,2-Tetrachloroethane	U		0.000440	0.00282	1	10/18/2018 16:08	WG1182742
1,1,2-Trichlorotrifluoroethane	U		0.000762	0.00282	1	10/18/2018 16:08	WG1182742
Tetrachloroethene	0.949	J4	0.000790	0.00282	1	10/18/2018 16:08	WG1182742
Toluene	U		0.00141	0.00564	1	10/18/2018 16:08	WG1182742
1,2,3-Trichlorobenzene	U		0.000705	0.00282	1	10/18/2018 16:08	WG1182742
1,2,4-Trichlorobenzene	U		0.00544	0.0141	1	10/18/2018 16:08	WG1182742
1,1,1-Trichloroethane	U		0.000310	0.00282	1	10/18/2018 16:08	WG1182742
1,1,2-Trichloroethane	U	J4	0.000996	0.00282	1	10/18/2018 16:08	WG1182742
Trichloroethene	0.0828		0.000451	0.00113	1	10/18/2018 16:08	WG1182742
Trichlorofluoromethane	U		0.000564	0.00282	1	10/18/2018 16:08	WG1182742
1,2,3-Trichloropropane	U		0.00576	0.0141	1	10/18/2018 16:08	WG1182742
1,2,4-Trimethylbenzene	U	J4	0.00131	0.00564	1	10/18/2018 16:08	WG1182742
1,2,3-Trimethylbenzene	U		0.00130	0.00564	1	10/18/2018 16:08	WG1182742
1,3,5-Trimethylbenzene	U		0.00122	0.00564	1	10/18/2018 16:08	WG1182742
Vinyl acetate	U		0.00397	0.0141	1	10/18/2018 16:08	WG1182742
Vinyl chloride	U		0.000771	0.00282	1	10/18/2018 16:08	WG1182742
Xylenes, Total	U		0.00539	0.00733	1	10/18/2018 16:08	WG1182742
(S) Toluene-d8	117			75.0-131		10/18/2018 16:08	WG1182742
(S) Toluene-d8	99.7			75.0-131		10/21/2018 14:16	WG1184188
(S) Dibromofluoromethane	79.2			65.0-129		10/18/2018 16:08	WG1182742
(S) Dibromofluoromethane	113			65.0-129		10/21/2018 14:16	WG1184188
(S) 4-Bromofluorobenzene	88.7			67.0-138		10/18/2018 16:08	WG1182742
(S) 4-Bromofluorobenzene	118			67.0-138		10/21/2018 14:16	WG1184188

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	86.3		1	10/19/2018 15:14	WG1183341

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.127	0.232	8	10/21/2018 16:15	WG1184188
Acrylonitrile	U		0.00220	0.0145	1	10/18/2018 16:28	WG1182742
Benzene	U		0.000463	0.00116	1	10/18/2018 16:28	WG1182742
Bromobenzene	U		0.00122	0.0145	1	10/18/2018 16:28	WG1182742
Bromodichloromethane	U		0.000913	0.00290	1	10/18/2018 16:28	WG1182742
Bromochloromethane	U		0.00131	0.00579	1	10/18/2018 16:28	WG1182742
Bromoform	U		0.00693	0.0290	1	10/18/2018 16:28	WG1182742
Bromomethane	U		0.00429	0.0145	1	10/18/2018 16:28	WG1182742
n-Butylbenzene	0.0247		0.00445	0.0145	1	10/18/2018 16:28	WG1182742
sec-Butylbenzene	U		0.00293	0.0145	1	10/18/2018 16:28	WG1182742
tert-Butylbenzene	U		0.00180	0.00579	1	10/18/2018 16:28	WG1182742
Carbon disulfide	U		0.00470	0.0145	1	10/18/2018 16:28	WG1182742
Carbon tetrachloride	U		0.00125	0.00579	1	10/18/2018 16:28	WG1182742
Chlorobenzene	U		0.000664	0.00290	1	10/18/2018 16:28	WG1182742
Chlorodibromomethane	U		0.000521	0.00290	1	10/18/2018 16:28	WG1182742
Chloroethane	U		0.00125	0.00579	1	10/18/2018 16:28	WG1182742
Chloroform	0.000777	J	0.000481	0.00290	1	10/18/2018 16:28	WG1182742
Chloromethane	U		0.00161	0.0145	1	10/18/2018 16:28	WG1182742
2-Chlorotoluene	U		0.00107	0.00290	1	10/18/2018 16:28	WG1182742
4-Chlorotoluene	U		0.00131	0.00579	1	10/18/2018 16:28	WG1182742
1,2-Dibromo-3-Chloropropane	U		0.00591	0.0290	1	10/18/2018 16:28	WG1182742
1,2-Dibromoethane	U		0.000608	0.00290	1	10/18/2018 16:28	WG1182742
Dibromomethane	U	J4	0.00116	0.00579	1	10/18/2018 16:28	WG1182742
1,2-Dichlorobenzene	U		0.00168	0.00579	1	10/18/2018 16:28	WG1182742
1,3-Dichlorobenzene	U		0.00197	0.00579	1	10/18/2018 16:28	WG1182742
1,4-Dichlorobenzene	U		0.00228	0.00579	1	10/18/2018 16:28	WG1182742
Dichlorodifluoromethane	U		0.000947	0.00290	1	10/18/2018 16:28	WG1182742
1,1-Dichloroethane	U		0.000666	0.00290	1	10/18/2018 16:28	WG1182742
1,2-Dichloroethane	U		0.000550	0.00290	1	10/18/2018 16:28	WG1182742
1,1-Dichloroethene	U		0.000579	0.00290	1	10/18/2018 16:28	WG1182742
cis-1,2-Dichloroethene	0.0692		0.000799	0.00290	1	10/18/2018 16:28	WG1182742
trans-1,2-Dichloroethene	U		0.00166	0.00579	1	10/18/2018 16:28	WG1182742
1,2-Dichloropropane	U		0.00147	0.00579	1	10/18/2018 16:28	WG1182742
1,1-Dichloropropene	U		0.000811	0.00290	1	10/18/2018 16:28	WG1182742
1,3-Dichloropropane	U		0.00203	0.00579	1	10/18/2018 16:28	WG1182742
cis-1,3-Dichloropropene	U		0.000785	0.00290	1	10/18/2018 16:28	WG1182742
trans-1,3-Dichloropropene	U		0.00177	0.00579	1	10/18/2018 16:28	WG1182742
trans-1,4-Dichloro-2-butene	U		0.00162	0.00579	1	10/18/2018 16:28	WG1182742
2,2-Dichloropropane	U		0.000918	0.00290	1	10/18/2018 16:28	WG1182742
Di-isopropyl ether	U		0.000405	0.00116	1	10/18/2018 16:28	WG1182742
Ethylbenzene	0.00143	J	0.000614	0.00290	1	10/18/2018 16:28	WG1182742
Hexachloro-1,3-butadiene	U		0.0147	0.0290	1	10/18/2018 16:28	WG1182742
2-Hexanone	U		0.0116	0.0290	1	10/18/2018 16:28	WG1182742
n-Hexane	0.00123	J	0.00123	0.00579	1	10/18/2018 16:28	WG1182742
Iodomethane	U		0.00701	0.0145	1	10/18/2018 16:28	WG1182742
Isopropylbenzene	U		0.000999	0.00290	1	10/18/2018 16:28	WG1182742
p-Isopropyltoluene	U		0.00270	0.00579	1	10/18/2018 16:28	WG1182742
2-Butanone (MEK)	U		0.0145	0.0290	1	10/18/2018 16:28	WG1182742
Methylene Chloride	U		0.00769	0.0290	1	10/18/2018 16:28	WG1182742
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1	10/18/2018 16:28	WG1182742

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/15/18 09:35

L1034970

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000342	0.00116	1	10/18/2018 16:28	WG1182742
Naphthalene	0.191		0.00361	0.0145	1	10/18/2018 16:28	WG1182742
n-Propylbenzene	0.00402	J	0.00137	0.00579	1	10/18/2018 16:28	WG1182742
Styrene	U		0.00316	0.0145	1	10/18/2018 16:28	WG1182742
1,1,1,2-Tetrachloroethane	U		0.000579	0.00290	1	10/18/2018 16:28	WG1182742
1,1,2,2-Tetrachloroethane	U		0.000452	0.00290	1	10/18/2018 16:28	WG1182742
1,1,2-Trichlorotrifluoroethane	U		0.000782	0.00290	1	10/18/2018 16:28	WG1182742
Tetrachloroethene	1.97	JO	0.00649	0.0232	8	10/21/2018 16:15	WG1184188
Toluene	0.00236	J	0.00145	0.00579	1	10/18/2018 16:28	WG1182742
1,2,3-Trichlorobenzene	U		0.000724	0.00290	1	10/18/2018 16:28	WG1182742
1,2,4-Trichlorobenzene	U		0.00558	0.0145	1	10/18/2018 16:28	WG1182742
1,1,1-Trichloroethane	U		0.000318	0.00290	1	10/18/2018 16:28	WG1182742
1,1,2-Trichloroethane	U	J4	0.00102	0.00290	1	10/18/2018 16:28	WG1182742
Trichloroethene	0.214		0.000463	0.00116	1	10/18/2018 16:28	WG1182742
Trichlorofluoromethane	U		0.000579	0.00290	1	10/18/2018 16:28	WG1182742
1,2,3-Trichloropropane	U		0.00591	0.0145	1	10/18/2018 16:28	WG1182742
1,2,4-Trimethylbenzene	0.0425	J4	0.00134	0.00579	1	10/18/2018 16:28	WG1182742
1,2,3-Trimethylbenzene	0.0203		0.00133	0.00579	1	10/18/2018 16:28	WG1182742
1,3,5-Trimethylbenzene	0.0118		0.00125	0.00579	1	10/18/2018 16:28	WG1182742
Vinyl acetate	U		0.00408	0.0145	1	10/18/2018 16:28	WG1182742
Vinyl chloride	U		0.000791	0.00290	1	10/18/2018 16:28	WG1182742
Xylenes, Total	0.00973		0.00554	0.00753	1	10/18/2018 16:28	WG1182742
(S) Toluene-d8	119			75.0-131		10/18/2018 16:28	WG1182742
(S) Toluene-d8	100			75.0-131		10/21/2018 16:15	WG1184188
(S) Dibromofluoromethane	78.2			65.0-129		10/18/2018 16:28	WG1182742
(S) Dibromofluoromethane	117			65.0-129		10/21/2018 16:15	WG1184188
(S) 4-Bromofluorobenzene	93.9			67.0-138		10/18/2018 16:28	WG1182742
(S) 4-Bromofluorobenzene	120			67.0-138		10/21/2018 16:15	WG1184188

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	88.3		1	10/19/2018 15:14	WG1183341

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.621	1.13	40	10/21/2018 16:35	WG1184188
Acrylonitrile	U		0.00215	0.0142	1	10/18/2018 16:48	WG1182742
Benzene	U		0.000453	0.00113	1	10/18/2018 16:48	WG1182742
Bromobenzene	U		0.00119	0.0142	1	10/18/2018 16:48	WG1182742
Bromodichloromethane	U		0.000892	0.00283	1	10/18/2018 16:48	WG1182742
Bromochloromethane	U		0.00128	0.00566	1	10/18/2018 16:48	WG1182742
Bromoform	U		0.00677	0.0283	1	10/18/2018 16:48	WG1182742
Bromomethane	U		0.00419	0.0142	1	10/18/2018 16:48	WG1182742
n-Butylbenzene	U		0.00435	0.0142	1	10/18/2018 16:48	WG1182742
sec-Butylbenzene	U		0.00286	0.0142	1	10/18/2018 16:48	WG1182742
tert-Butylbenzene	U		0.00176	0.00566	1	10/18/2018 16:48	WG1182742
Carbon disulfide	U		0.00460	0.0142	1	10/18/2018 16:48	WG1182742
Carbon tetrachloride	U		0.00122	0.00566	1	10/18/2018 16:48	WG1182742
Chlorobenzene	U		0.000649	0.00283	1	10/18/2018 16:48	WG1182742
Chlorodibromomethane	U		0.000510	0.00283	1	10/18/2018 16:48	WG1182742
Chloroethane	U		0.00122	0.00566	1	10/18/2018 16:48	WG1182742
Chloroform	0.000636	J	0.000470	0.00283	1	10/18/2018 16:48	WG1182742
Chloromethane	U		0.00157	0.0142	1	10/18/2018 16:48	WG1182742
2-Chlorotoluene	U		0.00104	0.00283	1	10/18/2018 16:48	WG1182742
4-Chlorotoluene	U		0.00128	0.00566	1	10/18/2018 16:48	WG1182742
1,2-Dibromo-3-Chloropropane	U		0.00577	0.0283	1	10/18/2018 16:48	WG1182742
1,2-Dibromoethane	U		0.000594	0.00283	1	10/18/2018 16:48	WG1182742
Dibromomethane	U	J4	0.00113	0.00566	1	10/18/2018 16:48	WG1182742
1,2-Dichlorobenzene	U		0.00164	0.00566	1	10/18/2018 16:48	WG1182742
1,3-Dichlorobenzene	U		0.00192	0.00566	1	10/18/2018 16:48	WG1182742
1,4-Dichlorobenzene	U		0.00223	0.00566	1	10/18/2018 16:48	WG1182742
Dichlorodifluoromethane	U		0.000926	0.00283	1	10/18/2018 16:48	WG1182742
1,1-Dichloroethane	U		0.000651	0.00283	1	10/18/2018 16:48	WG1182742
1,2-Dichloroethane	U		0.000538	0.00283	1	10/18/2018 16:48	WG1182742
1,1-Dichloroethene	U		0.000566	0.00283	1	10/18/2018 16:48	WG1182742
cis-1,2-Dichloroethene	0.0459		0.000781	0.00283	1	10/18/2018 16:48	WG1182742
trans-1,2-Dichloroethene	U		0.00162	0.00566	1	10/18/2018 16:48	WG1182742
1,2-Dichloropropane	U		0.00144	0.00566	1	10/18/2018 16:48	WG1182742
1,1-Dichloropropene	U		0.000793	0.00283	1	10/18/2018 16:48	WG1182742
1,3-Dichloropropane	U		0.00198	0.00566	1	10/18/2018 16:48	WG1182742
cis-1,3-Dichloropropene	U		0.000768	0.00283	1	10/18/2018 16:48	WG1182742
trans-1,3-Dichloropropene	U		0.00173	0.00566	1	10/18/2018 16:48	WG1182742
trans-1,4-Dichloro-2-butene	U		0.00159	0.00566	1	10/18/2018 16:48	WG1182742
2,2-Dichloropropane	U		0.000898	0.00283	1	10/18/2018 16:48	WG1182742
Di-isopropyl ether	U		0.000396	0.00113	1	10/18/2018 16:48	WG1182742
Ethylbenzene	U		0.000600	0.00283	1	10/18/2018 16:48	WG1182742
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	10/18/2018 16:48	WG1182742
2-Hexanone	U		0.0113	0.0283	1	10/18/2018 16:48	WG1182742
n-Hexane	U		0.00120	0.00566	1	10/18/2018 16:48	WG1182742
Iodomethane	U		0.00685	0.0142	1	10/18/2018 16:48	WG1182742
Isopropylbenzene	U		0.000977	0.00283	1	10/18/2018 16:48	WG1182742
p-Isopropyltoluene	U		0.00264	0.00566	1	10/18/2018 16:48	WG1182742
2-Butanone (MEK)	U		0.0142	0.0283	1	10/18/2018 16:48	WG1182742
Methylene Chloride	U		0.00752	0.0283	1	10/18/2018 16:48	WG1182742
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	10/18/2018 16:48	WG1182742

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/15/18 09:48

L1034970

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000334	0.00113	1	10/18/2018 16:48	WG1182742
Naphthalene	U		0.00353	0.0142	1	10/18/2018 16:48	WG1182742
n-Propylbenzene	U		0.00134	0.00566	1	10/18/2018 16:48	WG1182742
Styrene	U		0.00309	0.0142	1	10/18/2018 16:48	WG1182742
1,1,1,2-Tetrachloroethane	U		0.000566	0.00283	1	10/18/2018 16:48	WG1182742
1,1,2,2-Tetrachloroethane	U		0.000442	0.00283	1	10/18/2018 16:48	WG1182742
1,1,2-Trichlorotrifluoroethane	U		0.000764	0.00283	1	10/18/2018 16:48	WG1182742
Tetrachloroethene	8.35	<u>JO</u>	0.0317	0.113	40	10/21/2018 16:35	WG1184188
Toluene	U		0.00142	0.00566	1	10/18/2018 16:48	WG1182742
1,2,3-Trichlorobenzene	U		0.000708	0.00283	1	10/18/2018 16:48	WG1182742
1,2,4-Trichlorobenzene	U		0.00546	0.0142	1	10/18/2018 16:48	WG1182742
1,1,1-Trichloroethane	U		0.000311	0.00283	1	10/18/2018 16:48	WG1182742
1,1,2-Trichloroethane	U	<u>J4</u>	0.00100	0.00283	1	10/18/2018 16:48	WG1182742
Trichloroethene	0.150		0.000453	0.00113	1	10/18/2018 16:48	WG1182742
Trichlorofluoromethane	U		0.000566	0.00283	1	10/18/2018 16:48	WG1182742
1,2,3-Trichloropropane	U		0.00577	0.0142	1	10/18/2018 16:48	WG1182742
1,2,4-Trimethylbenzene	U	<u>J4</u>	0.00131	0.00566	1	10/18/2018 16:48	WG1182742
1,2,3-Trimethylbenzene	U		0.00130	0.00566	1	10/18/2018 16:48	WG1182742
1,3,5-Trimethylbenzene	U		0.00122	0.00566	1	10/18/2018 16:48	WG1182742
Vinyl acetate	U		0.00399	0.0142	1	10/18/2018 16:48	WG1182742
Vinyl chloride	U		0.000773	0.00283	1	10/18/2018 16:48	WG1182742
Xylenes, Total	U		0.00541	0.00736	1	10/18/2018 16:48	WG1182742
(S) Toluene-d8	117			75.0-131		10/18/2018 16:48	WG1182742
(S) Toluene-d8	98.2			75.0-131		10/21/2018 16:35	WG1184188
(S) Dibromofluoromethane	79.4			65.0-129		10/18/2018 16:48	WG1182742
(S) Dibromofluoromethane	117			65.0-129		10/21/2018 16:35	WG1184188
(S) 4-Bromofluorobenzene	105			67.0-138		10/18/2018 16:48	WG1182742
(S) 4-Bromofluorobenzene	126			67.0-138		10/21/2018 16:35	WG1184188

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.6		1	10/16/2018 14:25	WG1181703

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		11.3	20.7	700	10/17/2018 13:12	WG1182096
Acrylonitrile	U		0.00224	0.0148	1	10/16/2018 19:01	WG1181654
Benzene	U		0.000473	0.00118	1	10/16/2018 19:01	WG1181654
Bromobenzene	U		0.00124	0.0148	1	10/16/2018 19:01	WG1181654
Bromodichloromethane	U		0.000931	0.00295	1	10/16/2018 19:01	WG1181654
Bromochloromethane	U		0.00134	0.00591	1	10/16/2018 19:01	WG1181654
Bromoform	U		0.00707	0.0295	1	10/16/2018 19:01	WG1181654
Bromomethane	U		0.00437	0.0148	1	10/16/2018 19:01	WG1181654
n-Butylbenzene	U		0.00454	0.0148	1	10/16/2018 19:01	WG1181654
sec-Butylbenzene	U		0.00299	0.0148	1	10/16/2018 19:01	WG1181654
tert-Butylbenzene	U		0.00183	0.00591	1	10/16/2018 19:01	WG1181654
Carbon disulfide	U		0.00480	0.0148	1	10/16/2018 19:01	WG1181654
Carbon tetrachloride	U		0.00128	0.00591	1	10/16/2018 19:01	WG1181654
Chlorobenzene	U		0.000677	0.00295	1	10/16/2018 19:01	WG1181654
Chlorodibromomethane	U		0.000532	0.00295	1	10/16/2018 19:01	WG1181654
Chloroethane	U		0.00128	0.00591	1	10/16/2018 19:01	WG1181654
Chloroform	U		0.000490	0.00295	1	10/16/2018 19:01	WG1181654
Chloromethane	U		0.00164	0.0148	1	10/16/2018 19:01	WG1181654
2-Chlorotoluene	U		0.00109	0.00295	1	10/16/2018 19:01	WG1181654
4-Chlorotoluene	U		0.00134	0.00591	1	10/16/2018 19:01	WG1181654
1,2-Dibromo-3-Chloropropane	U		0.00603	0.0295	1	10/16/2018 19:01	WG1181654
1,2-Dibromoethane	U		0.000620	0.00295	1	10/16/2018 19:01	WG1181654
Dibromomethane	U	J4	0.00118	0.00591	1	10/16/2018 19:01	WG1181654
1,2-Dichlorobenzene	U		0.00171	0.00591	1	10/16/2018 19:01	WG1181654
1,3-Dichlorobenzene	U		0.00201	0.00591	1	10/16/2018 19:01	WG1181654
1,4-Dichlorobenzene	U		0.00233	0.00591	1	10/16/2018 19:01	WG1181654
Dichlorodifluoromethane	U		0.000966	0.00295	1	10/16/2018 19:01	WG1181654
1,1-Dichloroethane	U		0.000679	0.00295	1	10/16/2018 19:01	WG1181654
1,2-Dichloroethane	U		0.000561	0.00295	1	10/16/2018 19:01	WG1181654
1,1-Dichloroethene	U		0.000591	0.00295	1	10/16/2018 19:01	WG1181654
cis-1,2-Dichloroethene	0.558		0.000815	0.00295	1	10/16/2018 19:01	WG1181654
trans-1,2-Dichloroethene	0.00420	J	0.00169	0.00591	1	10/16/2018 19:01	WG1181654
1,2-Dichloropropane	U		0.00150	0.00591	1	10/16/2018 19:01	WG1181654
1,1-Dichloropropene	U		0.000827	0.00295	1	10/16/2018 19:01	WG1181654
1,3-Dichloropropane	U		0.00207	0.00591	1	10/16/2018 19:01	WG1181654
cis-1,3-Dichloropropene	U		0.000801	0.00295	1	10/16/2018 19:01	WG1181654
trans-1,3-Dichloropropene	U		0.00181	0.00591	1	10/16/2018 19:01	WG1181654
trans-1,4-Dichloro-2-butene	U		0.00165	0.00591	1	10/16/2018 19:01	WG1181654
2,2-Dichloropropane	U		0.000937	0.00295	1	10/16/2018 19:01	WG1181654
Di-isopropyl ether	U		0.000414	0.00118	1	10/16/2018 19:01	WG1181654
Ethylbenzene	U		0.000626	0.00295	1	10/16/2018 19:01	WG1181654
Hexachloro-1,3-butadiene	U		0.0150	0.0295	1	10/16/2018 19:01	WG1181654
2-Hexanone	U		0.0118	0.0295	1	10/16/2018 19:01	WG1181654
n-Hexane	U		0.00125	0.00591	1	10/16/2018 19:01	WG1181654
Iodomethane	U		0.00715	0.0148	1	10/16/2018 19:01	WG1181654
Isopropylbenzene	U		0.00102	0.00295	1	10/16/2018 19:01	WG1181654
p-Isopropyltoluene	U		0.00275	0.00591	1	10/16/2018 19:01	WG1181654
2-Butanone (MEK)	U		0.0148	0.0295	1	10/16/2018 19:01	WG1181654
Methylene Chloride	U		0.00785	0.0295	1	10/16/2018 19:01	WG1181654
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0295	1	10/16/2018 19:01	WG1181654

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	<u>J0</u>	0.000349	0.00118	1	10/16/2018 19:01	WG1181654
Naphthalene	U		0.00369	0.0148	1	10/16/2018 19:01	WG1181654
n-Propylbenzene	U		0.00139	0.00591	1	10/16/2018 19:01	WG1181654
Styrene	U		0.00323	0.0148	1	10/16/2018 19:01	WG1181654
1,1,1,2-Tetrachloroethane	U		0.000591	0.00295	1	10/16/2018 19:01	WG1181654
1,1,2,2-Tetrachloroethane	U	<u>J4</u>	0.000461	0.00295	1	10/16/2018 19:01	WG1181654
1,1,2-Trichlorotrifluoroethane	U		0.000798	0.00295	1	10/16/2018 19:01	WG1181654
Tetrachloroethene	10.3		0.579	2.07	700	10/17/2018 13:12	WG1182096
Toluene	U		0.00148	0.00591	1	10/16/2018 19:01	WG1181654
1,2,3-Trichlorobenzene	U		0.000738	0.00295	1	10/16/2018 19:01	WG1181654
1,2,4-Trichlorobenzene	U		0.00569	0.0148	1	10/16/2018 19:01	WG1181654
1,1,1-Trichloroethane	U		0.000325	0.00295	1	10/16/2018 19:01	WG1181654
1,1,2-Trichloroethane	U	<u>J4</u>	0.00104	0.00295	1	10/16/2018 19:01	WG1181654
Trichloroethene	0.661		0.000473	0.00118	1	10/16/2018 19:01	WG1181654
Trichlorofluoromethane	U		0.000591	0.00295	1	10/16/2018 19:01	WG1181654
1,2,3-Trichloropropane	U		0.00603	0.0148	1	10/16/2018 19:01	WG1181654
1,2,4-Trimethylbenzene	U		0.00137	0.00591	1	10/16/2018 19:01	WG1181654
1,2,3-Trimethylbenzene	U		0.00136	0.00591	1	10/16/2018 19:01	WG1181654
1,3,5-Trimethylbenzene	U		0.00128	0.00591	1	10/16/2018 19:01	WG1181654
Vinyl acetate	U		0.00416	0.0148	1	10/16/2018 19:01	WG1181654
Vinyl chloride	U		0.000807	0.00295	1	10/16/2018 19:01	WG1181654
Xylenes, Total	U		0.00565	0.00768	1	10/16/2018 19:01	WG1181654
(S) Toluene-d8	118			75.0-131		10/16/2018 19:01	WG1181654
(S) Toluene-d8	99.4			75.0-131		10/17/2018 13:12	WG1182096
(S) Dibromofluoromethane	74.9			65.0-129		10/16/2018 19:01	WG1181654
(S) Dibromofluoromethane	119			65.0-129		10/17/2018 13:12	WG1182096
(S) 4-Bromofluorobenzene	88.6			67.0-138		10/16/2018 19:01	WG1181654
(S) 4-Bromofluorobenzene	119			67.0-138		10/17/2018 13:12	WG1182096

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	90.6		1	10/19/2018 15:14	WG1183341

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0151	0.0276	1	10/21/2018 14:36	WG1184188
Acrylonitrile	U		0.00210	0.0138	1	10/18/2018 17:07	WG1182742
Benzene	U		0.000442	0.00110	1	10/18/2018 17:07	WG1182742
Bromobenzene	U		0.00116	0.0138	1	10/18/2018 17:07	WG1182742
Bromodichloromethane	U		0.000870	0.00276	1	10/18/2018 17:07	WG1182742
Bromochloromethane	U		0.00125	0.00552	1	10/18/2018 17:07	WG1182742
Bromoform	U		0.00660	0.0276	1	10/18/2018 17:07	WG1182742
Bromomethane	U		0.00409	0.0138	1	10/18/2018 17:07	WG1182742
n-Butylbenzene	U		0.00424	0.0138	1	10/18/2018 17:07	WG1182742
sec-Butylbenzene	U		0.00279	0.0138	1	10/18/2018 17:07	WG1182742
tert-Butylbenzene	U		0.00171	0.00552	1	10/18/2018 17:07	WG1182742
Carbon disulfide	U		0.00448	0.0138	1	10/18/2018 17:07	WG1182742
Carbon tetrachloride	U		0.00119	0.00552	1	10/18/2018 17:07	WG1182742
Chlorobenzene	U		0.000633	0.00276	1	10/18/2018 17:07	WG1182742
Chlorodibromomethane	U		0.000497	0.00276	1	10/18/2018 17:07	WG1182742
Chloroethane	U		0.00119	0.00552	1	10/18/2018 17:07	WG1182742
Chloroform	0.000710	J	0.000458	0.00276	1	10/18/2018 17:07	WG1182742
Chloromethane	U		0.00153	0.0138	1	10/18/2018 17:07	WG1182742
2-Chlorotoluene	U		0.00102	0.00276	1	10/18/2018 17:07	WG1182742
4-Chlorotoluene	U		0.00125	0.00552	1	10/18/2018 17:07	WG1182742
1,2-Dibromo-3-Chloropropane	U		0.00563	0.0276	1	10/18/2018 17:07	WG1182742
1,2-Dibromoethane	U		0.000580	0.00276	1	10/18/2018 17:07	WG1182742
Dibromomethane	U	J4	0.00110	0.00552	1	10/18/2018 17:07	WG1182742
1,2-Dichlorobenzene	U		0.00160	0.00552	1	10/18/2018 17:07	WG1182742
1,3-Dichlorobenzene	U		0.00188	0.00552	1	10/18/2018 17:07	WG1182742
1,4-Dichlorobenzene	U		0.00218	0.00552	1	10/18/2018 17:07	WG1182742
Dichlorodifluoromethane	U		0.000903	0.00276	1	10/18/2018 17:07	WG1182742
1,1-Dichloroethane	U		0.000635	0.00276	1	10/18/2018 17:07	WG1182742
1,2-Dichloroethane	U		0.000524	0.00276	1	10/18/2018 17:07	WG1182742
1,1-Dichloroethene	U		0.000552	0.00276	1	10/18/2018 17:07	WG1182742
cis-1,2-Dichloroethene	0.00164	J	0.000762	0.00276	1	10/18/2018 17:07	WG1182742
trans-1,2-Dichloroethene	U		0.00158	0.00552	1	10/18/2018 17:07	WG1182742
1,2-Dichloropropane	U		0.00140	0.00552	1	10/18/2018 17:07	WG1182742
1,1-Dichloropropene	U		0.000773	0.00276	1	10/18/2018 17:07	WG1182742
1,3-Dichloropropane	U		0.00193	0.00552	1	10/18/2018 17:07	WG1182742
cis-1,3-Dichloropropene	U		0.000749	0.00276	1	10/18/2018 17:07	WG1182742
trans-1,3-Dichloropropene	U		0.00169	0.00552	1	10/18/2018 17:07	WG1182742
trans-1,4-Dichloro-2-butene	U		0.00155	0.00552	1	10/18/2018 17:07	WG1182742
2,2-Dichloropropane	U		0.000876	0.00276	1	10/18/2018 17:07	WG1182742
Di-isopropyl ether	U		0.000386	0.00110	1	10/18/2018 17:07	WG1182742
Ethylbenzene	U		0.000585	0.00276	1	10/18/2018 17:07	WG1182742
Hexachloro-1,3-butadiene	U		0.0140	0.0276	1	10/18/2018 17:07	WG1182742
2-Hexanone	U		0.0110	0.0276	1	10/18/2018 17:07	WG1182742
n-Hexane	0.00136	J	0.00117	0.00552	1	10/18/2018 17:07	WG1182742
Iodomethane	U		0.00668	0.0138	1	10/18/2018 17:07	WG1182742
Isopropylbenzene	U		0.000953	0.00276	1	10/18/2018 17:07	WG1182742
p-Isopropyltoluene	U		0.00257	0.00552	1	10/18/2018 17:07	WG1182742
2-Butanone (MEK)	U		0.0138	0.0276	1	10/18/2018 17:07	WG1182742
Methylene Chloride	U		0.00733	0.0276	1	10/18/2018 17:07	WG1182742
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0276	1	10/18/2018 17:07	WG1182742

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/15/18 10:00

L1034970

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000326	0.00110	1	10/18/2018 17:07	WG1182742
Naphthalene	U		0.00345	0.0138	1	10/18/2018 17:07	WG1182742
n-Propylbenzene	U		0.00130	0.00552	1	10/18/2018 17:07	WG1182742
Styrene	U		0.00301	0.0138	1	10/18/2018 17:07	WG1182742
1,1,1,2-Tetrachloroethane	U		0.000552	0.00276	1	10/18/2018 17:07	WG1182742
1,1,2,2-Tetrachloroethane	U		0.000431	0.00276	1	10/18/2018 17:07	WG1182742
1,1,2-Trichlorotrifluoroethane	U		0.000745	0.00276	1	10/18/2018 17:07	WG1182742
Tetrachloroethene	0.701	J4	0.000773	0.00276	1	10/18/2018 17:07	WG1182742
Toluene	U		0.00138	0.00552	1	10/18/2018 17:07	WG1182742
1,2,3-Trichlorobenzene	U		0.000690	0.00276	1	10/18/2018 17:07	WG1182742
1,2,4-Trichlorobenzene	U		0.00532	0.0138	1	10/18/2018 17:07	WG1182742
1,1,1-Trichloroethane	U		0.000304	0.00276	1	10/18/2018 17:07	WG1182742
1,1,2-Trichloroethane	U	J4	0.000975	0.00276	1	10/18/2018 17:07	WG1182742
Trichloroethene	0.00576		0.000442	0.00110	1	10/18/2018 17:07	WG1182742
Trichlorofluoromethane	U		0.000552	0.00276	1	10/18/2018 17:07	WG1182742
1,2,3-Trichloropropane	U		0.00563	0.0138	1	10/18/2018 17:07	WG1182742
1,2,4-Trimethylbenzene	U	J4	0.00128	0.00552	1	10/18/2018 17:07	WG1182742
1,2,3-Trimethylbenzene	U		0.00127	0.00552	1	10/18/2018 17:07	WG1182742
1,3,5-Trimethylbenzene	U		0.00119	0.00552	1	10/18/2018 17:07	WG1182742
Vinyl acetate	U		0.00389	0.0138	1	10/18/2018 17:07	WG1182742
Vinyl chloride	U		0.000754	0.00276	1	10/18/2018 17:07	WG1182742
Xylenes, Total	U		0.00528	0.00718	1	10/18/2018 17:07	WG1182742
(S) Toluene-d8	118			75.0-131		10/18/2018 17:07	WG1182742
(S) Toluene-d8	100			75.0-131		10/21/2018 14:36	WG1184188
(S) Dibromofluoromethane	78.3			65.0-129		10/18/2018 17:07	WG1182742
(S) Dibromofluoromethane	113			65.0-129		10/21/2018 14:36	WG1184188
(S) 4-Bromofluorobenzene	87.0			67.0-138		10/18/2018 17:07	WG1182742
(S) 4-Bromofluorobenzene	120			67.0-138		10/21/2018 14:36	WG1184188

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	89.8		1	10/19/2018 13:51	WG1183343

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.122	0.223	8	10/21/2018 16:55	WG1184188
Acrylonitrile	U		0.00212	0.0139	1	10/18/2018 17:27	WG1182742
Benzene	U		0.000445	0.00111	1	10/18/2018 17:27	WG1182742
Bromobenzene	U		0.00117	0.0139	1	10/18/2018 17:27	WG1182742
Bromodichloromethane	U		0.000877	0.00278	1	10/18/2018 17:27	WG1182742
Bromochloromethane	U		0.00126	0.00557	1	10/18/2018 17:27	WG1182742
Bromoform	U		0.00666	0.0278	1	10/18/2018 17:27	WG1182742
Bromomethane	U		0.00412	0.0139	1	10/18/2018 17:27	WG1182742
n-Butylbenzene	U		0.00428	0.0139	1	10/18/2018 17:27	WG1182742
sec-Butylbenzene	U		0.00282	0.0139	1	10/18/2018 17:27	WG1182742
tert-Butylbenzene	U		0.00173	0.00557	1	10/18/2018 17:27	WG1182742
Carbon disulfide	U		0.00452	0.0139	1	10/18/2018 17:27	WG1182742
Carbon tetrachloride	U		0.00120	0.00557	1	10/18/2018 17:27	WG1182742
Chlorobenzene	U		0.000638	0.00278	1	10/18/2018 17:27	WG1182742
Chlorodibromomethane	U		0.000501	0.00278	1	10/18/2018 17:27	WG1182742
Chloroethane	U		0.00120	0.00557	1	10/18/2018 17:27	WG1182742
Chloroform	U		0.000462	0.00278	1	10/18/2018 17:27	WG1182742
Chloromethane	U		0.00155	0.0139	1	10/18/2018 17:27	WG1182742
2-Chlorotoluene	U		0.00102	0.00278	1	10/18/2018 17:27	WG1182742
4-Chlorotoluene	U		0.00126	0.00557	1	10/18/2018 17:27	WG1182742
1,2-Dibromo-3-Chloropropane	U		0.00568	0.0278	1	10/18/2018 17:27	WG1182742
1,2-Dibromoethane	U		0.000585	0.00278	1	10/18/2018 17:27	WG1182742
Dibromomethane	U	J4	0.00111	0.00557	1	10/18/2018 17:27	WG1182742
1,2-Dichlorobenzene	U		0.00161	0.00557	1	10/18/2018 17:27	WG1182742
1,3-Dichlorobenzene	U		0.00189	0.00557	1	10/18/2018 17:27	WG1182742
1,4-Dichlorobenzene	U		0.00219	0.00557	1	10/18/2018 17:27	WG1182742
Dichlorodifluoromethane	U		0.000911	0.00278	1	10/18/2018 17:27	WG1182742
1,1-Dichloroethane	U		0.000640	0.00278	1	10/18/2018 17:27	WG1182742
1,2-Dichloroethane	U		0.000529	0.00278	1	10/18/2018 17:27	WG1182742
1,1-Dichloroethene	U		0.000557	0.00278	1	10/18/2018 17:27	WG1182742
cis-1,2-Dichloroethene	0.00387		0.000768	0.00278	1	10/18/2018 17:27	WG1182742
trans-1,2-Dichloroethene	U		0.00159	0.00557	1	10/18/2018 17:27	WG1182742
1,2-Dichloropropane	U		0.00141	0.00557	1	10/18/2018 17:27	WG1182742
1,1-Dichloropropene	U		0.000779	0.00278	1	10/18/2018 17:27	WG1182742
1,3-Dichloropropane	U		0.00195	0.00557	1	10/18/2018 17:27	WG1182742
cis-1,3-Dichloropropene	U		0.000755	0.00278	1	10/18/2018 17:27	WG1182742
trans-1,3-Dichloropropene	U		0.00170	0.00557	1	10/18/2018 17:27	WG1182742
trans-1,4-Dichloro-2-butene	U		0.00156	0.00557	1	10/18/2018 17:27	WG1182742
2,2-Dichloropropane	U		0.000883	0.00278	1	10/18/2018 17:27	WG1182742
Di-isopropyl ether	U		0.000390	0.00111	1	10/18/2018 17:27	WG1182742
Ethylbenzene	U		0.000590	0.00278	1	10/18/2018 17:27	WG1182742
Hexachloro-1,3-butadiene	U		0.0141	0.0278	1	10/18/2018 17:27	WG1182742
2-Hexanone	U		0.0111	0.0278	1	10/18/2018 17:27	WG1182742
n-Hexane	U		0.00118	0.00557	1	10/18/2018 17:27	WG1182742
Iodomethane	U		0.00674	0.0139	1	10/18/2018 17:27	WG1182742
Isopropylbenzene	U		0.000961	0.00278	1	10/18/2018 17:27	WG1182742
p-Isopropyltoluene	U		0.00259	0.00557	1	10/18/2018 17:27	WG1182742
2-Butanone (MEK)	U		0.0139	0.0278	1	10/18/2018 17:27	WG1182742
Methylene Chloride	U		0.00739	0.0278	1	10/18/2018 17:27	WG1182742
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0278	1	10/18/2018 17:27	WG1182742

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/15/18 10:12

L1034970

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000328	0.00111	1	10/18/2018 17:27	WG1182742
Naphthalene	U		0.00347	0.0139	1	10/18/2018 17:27	WG1182742
n-Propylbenzene	U		0.00131	0.00557	1	10/18/2018 17:27	WG1182742
Styrene	U		0.00304	0.0139	1	10/18/2018 17:27	WG1182742
1,1,1,2-Tetrachloroethane	U		0.000557	0.00278	1	10/18/2018 17:27	WG1182742
1,1,2,2-Tetrachloroethane	U		0.000434	0.00278	1	10/18/2018 17:27	WG1182742
1,1,2-Trichlorotrifluoroethane	U		0.000752	0.00278	1	10/18/2018 17:27	WG1182742
Tetrachloroethene	1.81	<u>J0</u>	0.00624	0.0223	8	10/21/2018 16:55	WG1184188
Toluene	U		0.00139	0.00557	1	10/18/2018 17:27	WG1182742
1,2,3-Trichlorobenzene	U		0.000696	0.00278	1	10/18/2018 17:27	WG1182742
1,2,4-Trichlorobenzene	U		0.00537	0.0139	1	10/18/2018 17:27	WG1182742
1,1,1-Trichloroethane	U		0.000306	0.00278	1	10/18/2018 17:27	WG1182742
1,1,2-Trichloroethane	U	<u>J4</u>	0.000983	0.00278	1	10/18/2018 17:27	WG1182742
Trichloroethene	0.0269		0.000445	0.00111	1	10/18/2018 17:27	WG1182742
Trichlorofluoromethane	U		0.000557	0.00278	1	10/18/2018 17:27	WG1182742
1,2,3-Trichloropropane	U		0.00568	0.0139	1	10/18/2018 17:27	WG1182742
1,2,4-Trimethylbenzene	U	<u>J4</u>	0.00129	0.00557	1	10/18/2018 17:27	WG1182742
1,2,3-Trimethylbenzene	U		0.00128	0.00557	1	10/18/2018 17:27	WG1182742
1,3,5-Trimethylbenzene	U		0.00120	0.00557	1	10/18/2018 17:27	WG1182742
Vinyl acetate	U		0.00392	0.0139	1	10/18/2018 17:27	WG1182742
Vinyl chloride	U		0.000760	0.00278	1	10/18/2018 17:27	WG1182742
Xylenes, Total	U		0.00532	0.00724	1	10/18/2018 17:27	WG1182742
(S) Toluene-d8	118			75.0-131		10/18/2018 17:27	WG1182742
(S) Toluene-d8	101			75.0-131		10/21/2018 16:55	WG1184188
(S) Dibromofluoromethane	76.6			65.0-129		10/18/2018 17:27	WG1182742
(S) Dibromofluoromethane	117			65.0-129		10/21/2018 16:55	WG1184188
(S) 4-Bromofluorobenzene	105			67.0-138		10/18/2018 17:27	WG1182742
(S) 4-Bromofluorobenzene	124			67.0-138		10/21/2018 16:55	WG1184188

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.9		1	10/19/2018 13:51	WG1183343

Volatile Organic Compounds (GC/MS) 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	2.22	80	10/21/2018 17:15	WG1184188
Acrylonitrile	U		0.00211	0.0139	1	10/18/2018 17:47	WG1182742
Benzene	U		0.000445	0.00111	1	10/18/2018 17:47	WG1182742
Bromobenzene	U		0.00117	0.0139	1	10/18/2018 17:47	WG1182742
Bromodichloromethane	U		0.000877	0.00278	1	10/18/2018 17:47	WG1182742
Bromochloromethane	U		0.00126	0.00556	1	10/18/2018 17:47	WG1182742
Bromoform	U		0.00665	0.0278	1	10/18/2018 17:47	WG1182742
Bromomethane	U		0.00412	0.0139	1	10/18/2018 17:47	WG1182742
n-Butylbenzene	U		0.00427	0.0139	1	10/18/2018 17:47	WG1182742
sec-Butylbenzene	U		0.00281	0.0139	1	10/18/2018 17:47	WG1182742
tert-Butylbenzene	U		0.00172	0.00556	1	10/18/2018 17:47	WG1182742
Carbon disulfide	U		0.00452	0.0139	1	10/18/2018 17:47	WG1182742
Carbon tetrachloride	U		0.00120	0.00556	1	10/18/2018 17:47	WG1182742
Chlorobenzene	U		0.000637	0.00278	1	10/18/2018 17:47	WG1182742
Chlorodibromomethane	U		0.000501	0.00278	1	10/18/2018 17:47	WG1182742
Chloroethane	U		0.00120	0.00556	1	10/18/2018 17:47	WG1182742
Chloroform	0.000645	J	0.000462	0.00278	1	10/18/2018 17:47	WG1182742
Chloromethane	U		0.00155	0.0139	1	10/18/2018 17:47	WG1182742
2-Chlorotoluene	U		0.00102	0.00278	1	10/18/2018 17:47	WG1182742
4-Chlorotoluene	U		0.00126	0.00556	1	10/18/2018 17:47	WG1182742
1,2-Dibromo-3-Chloropropane	U		0.00567	0.0278	1	10/18/2018 17:47	WG1182742
1,2-Dibromoethane	U		0.000584	0.00278	1	10/18/2018 17:47	WG1182742
Dibromomethane	U	J4	0.00111	0.00556	1	10/18/2018 17:47	WG1182742
1,2-Dichlorobenzene	U		0.00161	0.00556	1	10/18/2018 17:47	WG1182742
1,3-Dichlorobenzene	U		0.00189	0.00556	1	10/18/2018 17:47	WG1182742
1,4-Dichlorobenzene	U		0.00219	0.00556	1	10/18/2018 17:47	WG1182742
Dichlorodifluoromethane	U		0.000910	0.00278	1	10/18/2018 17:47	WG1182742
1,1-Dichloroethane	U		0.000640	0.00278	1	10/18/2018 17:47	WG1182742
1,2-Dichloroethane	U		0.000528	0.00278	1	10/18/2018 17:47	WG1182742
1,1-Dichloroethene	U		0.000556	0.00278	1	10/18/2018 17:47	WG1182742
cis-1,2-Dichloroethene	0.123		0.000768	0.00278	1	10/18/2018 17:47	WG1182742
trans-1,2-Dichloroethene	0.00166	J	0.00159	0.00556	1	10/18/2018 17:47	WG1182742
1,2-Dichloropropane	U		0.00141	0.00556	1	10/18/2018 17:47	WG1182742
1,1-Dichloropropene	U		0.000779	0.00278	1	10/18/2018 17:47	WG1182742
1,3-Dichloropropane	U		0.00195	0.00556	1	10/18/2018 17:47	WG1182742
cis-1,3-Dichloropropene	U		0.000754	0.00278	1	10/18/2018 17:47	WG1182742
trans-1,3-Dichloropropene	U		0.00170	0.00556	1	10/18/2018 17:47	WG1182742
trans-1,4-Dichloro-2-butene	U		0.00156	0.00556	1	10/18/2018 17:47	WG1182742
2,2-Dichloropropane	U		0.000882	0.00278	1	10/18/2018 17:47	WG1182742
Di-isopropyl ether	U		0.000389	0.00111	1	10/18/2018 17:47	WG1182742
Ethylbenzene	U		0.000590	0.00278	1	10/18/2018 17:47	WG1182742
Hexachloro-1,3-butadiene	U		0.0141	0.0278	1	10/18/2018 17:47	WG1182742
2-Hexanone	U		0.0111	0.0278	1	10/18/2018 17:47	WG1182742
n-Hexane	0.00119	J	0.00118	0.00556	1	10/18/2018 17:47	WG1182742
Iodomethane	U		0.00673	0.0139	1	10/18/2018 17:47	WG1182742
Isopropylbenzene	U		0.000960	0.00278	1	10/18/2018 17:47	WG1182742
p-Isopropyltoluene	U		0.00259	0.00556	1	10/18/2018 17:47	WG1182742
2-Butanone (MEK)	U		0.0139	0.0278	1	10/18/2018 17:47	WG1182742
Methylene Chloride	U		0.00739	0.0278	1	10/18/2018 17:47	WG1182742
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0278	1	10/18/2018 17:47	WG1182742

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/15/18 10:10

L1034970

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000328	0.0011	1	10/18/2018 17:47	WG1182742
Naphthalene	U		0.00347	0.0139	1	10/18/2018 17:47	WG1182742
n-Propylbenzene	U		0.00131	0.00556	1	10/18/2018 17:47	WG1182742
Styrene	U		0.00304	0.0139	1	10/18/2018 17:47	WG1182742
1,1,1,2-Tetrachloroethane	U		0.000556	0.00278	1	10/18/2018 17:47	WG1182742
1,1,2,2-Tetrachloroethane	U		0.000434	0.00278	1	10/18/2018 17:47	WG1182742
1,1,2-Trichlorotrifluoroethane	U		0.000751	0.00278	1	10/18/2018 17:47	WG1182742
Tetrachloroethene	21.7	<u>JO</u>	0.0623	0.222	80	10/21/2018 17:15	WG1184188
Toluene	U		0.00139	0.00556	1	10/18/2018 17:47	WG1182742
1,2,3-Trichlorobenzene	U		0.000695	0.00278	1	10/18/2018 17:47	WG1182742
1,2,4-Trichlorobenzene	U		0.00536	0.0139	1	10/18/2018 17:47	WG1182742
1,1,1-Trichloroethane	U		0.000306	0.00278	1	10/18/2018 17:47	WG1182742
1,1,2-Trichloroethane	U	<u>J4</u>	0.000982	0.00278	1	10/18/2018 17:47	WG1182742
Trichloroethene	0.0762		0.000445	0.0011	1	10/18/2018 17:47	WG1182742
Trichlorofluoromethane	U		0.000556	0.00278	1	10/18/2018 17:47	WG1182742
1,2,3-Trichloropropane	U		0.00567	0.0139	1	10/18/2018 17:47	WG1182742
1,2,4-Trimethylbenzene	U	<u>J4</u>	0.00129	0.00556	1	10/18/2018 17:47	WG1182742
1,2,3-Trimethylbenzene	U		0.00128	0.00556	1	10/18/2018 17:47	WG1182742
1,3,5-Trimethylbenzene	U		0.00120	0.00556	1	10/18/2018 17:47	WG1182742
Vinyl acetate	U		0.00392	0.0139	1	10/18/2018 17:47	WG1182742
Vinyl chloride	U		0.000760	0.00278	1	10/18/2018 17:47	WG1182742
Xylenes, Total	U		0.00532	0.00723	1	10/18/2018 17:47	WG1182742
(S) Toluene-d8	118			75.0-131		10/18/2018 17:47	WG1182742
(S) Toluene-d8	98.7			75.0-131		10/21/2018 17:15	WG1184188
(S) Dibromofluoromethane	79.0			65.0-129		10/18/2018 17:47	WG1182742
(S) Dibromofluoromethane	119			65.0-129		10/21/2018 17:15	WG1184188
(S) 4-Bromofluorobenzene	89.3			67.0-138		10/18/2018 17:47	WG1182742
(S) 4-Bromofluorobenzene	125			67.0-138		10/21/2018 17:15	WG1184188

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	89.0		1	10/19/2018 13:51	WG1183343

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		1.24	2.25	80	10/21/2018 17:35	WG1184188
Acrylonitrile	U		0.00213	0.0140	1	10/18/2018 18:07	WG1182742
Benzene	U		0.000449	0.00112	1	10/18/2018 18:07	WG1182742
Bromobenzene	U		0.00118	0.0140	1	10/18/2018 18:07	WG1182742
Bromodichloromethane	U		0.000885	0.00281	1	10/18/2018 18:07	WG1182742
Bromochloromethane	U		0.00127	0.00562	1	10/18/2018 18:07	WG1182742
Bromoform	U		0.00672	0.0281	1	10/18/2018 18:07	WG1182742
Bromomethane	U		0.00416	0.0140	1	10/18/2018 18:07	WG1182742
n-Butylbenzene	U		0.00431	0.0140	1	10/18/2018 18:07	WG1182742
sec-Butylbenzene	U		0.00284	0.0140	1	10/18/2018 18:07	WG1182742
tert-Butylbenzene	U		0.00174	0.00562	1	10/18/2018 18:07	WG1182742
Carbon disulfide	U		0.00456	0.0140	1	10/18/2018 18:07	WG1182742
Carbon tetrachloride	U		0.00121	0.00562	1	10/18/2018 18:07	WG1182742
Chlorobenzene	U		0.000644	0.00281	1	10/18/2018 18:07	WG1182742
Chlorodibromomethane	U		0.000505	0.00281	1	10/18/2018 18:07	WG1182742
Chloroethane	U		0.00121	0.00562	1	10/18/2018 18:07	WG1182742
Chloroform	0.000708	J	0.000466	0.00281	1	10/18/2018 18:07	WG1182742
Chloromethane	U		0.00156	0.0140	1	10/18/2018 18:07	WG1182742
2-Chlorotoluene	U		0.00103	0.00281	1	10/18/2018 18:07	WG1182742
4-Chlorotoluene	U		0.00127	0.00562	1	10/18/2018 18:07	WG1182742
1,2-Dibromo-3-Chloropropane	U		0.00573	0.0281	1	10/18/2018 18:07	WG1182742
1,2-Dibromoethane	U		0.000590	0.00281	1	10/18/2018 18:07	WG1182742
Dibromomethane	U	J4	0.00112	0.00562	1	10/18/2018 18:07	WG1182742
1,2-Dichlorobenzene	U		0.00163	0.00562	1	10/18/2018 18:07	WG1182742
1,3-Dichlorobenzene	U		0.00191	0.00562	1	10/18/2018 18:07	WG1182742
1,4-Dichlorobenzene	U		0.00221	0.00562	1	10/18/2018 18:07	WG1182742
Dichlorodifluoromethane	U		0.000919	0.00281	1	10/18/2018 18:07	WG1182742
1,1-Dichloroethane	U		0.000646	0.00281	1	10/18/2018 18:07	WG1182742
1,2-Dichloroethane	U		0.000534	0.00281	1	10/18/2018 18:07	WG1182742
1,1-Dichloroethene	U		0.000562	0.00281	1	10/18/2018 18:07	WG1182742
cis-1,2-Dichloroethene	0.288		0.000775	0.00281	1	10/18/2018 18:07	WG1182742
trans-1,2-Dichloroethene	0.00285	J	0.00161	0.00562	1	10/18/2018 18:07	WG1182742
1,2-Dichloropropane	U		0.00143	0.00562	1	10/18/2018 18:07	WG1182742
1,1-Dichloropropene	U		0.000786	0.00281	1	10/18/2018 18:07	WG1182742
1,3-Dichloropropane	U		0.00197	0.00562	1	10/18/2018 18:07	WG1182742
cis-1,3-Dichloropropene	U		0.000762	0.00281	1	10/18/2018 18:07	WG1182742
trans-1,3-Dichloropropene	U		0.00172	0.00562	1	10/18/2018 18:07	WG1182742
trans-1,4-Dichloro-2-butene	U		0.00157	0.00562	1	10/18/2018 18:07	WG1182742
2,2-Dichloropropane	U		0.000891	0.00281	1	10/18/2018 18:07	WG1182742
Di-isopropyl ether	U		0.000393	0.00112	1	10/18/2018 18:07	WG1182742
Ethylbenzene	U		0.000595	0.00281	1	10/18/2018 18:07	WG1182742
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	10/18/2018 18:07	WG1182742
2-Hexanone	U		0.0112	0.0281	1	10/18/2018 18:07	WG1182742
n-Hexane	U		0.00119	0.00562	1	10/18/2018 18:07	WG1182742
Iodomethane	U		0.00680	0.0140	1	10/18/2018 18:07	WG1182742
Isopropylbenzene	U		0.000969	0.00281	1	10/18/2018 18:07	WG1182742
p-Isopropyltoluene	U		0.00262	0.00562	1	10/18/2018 18:07	WG1182742
2-Butanone (MEK)	U		0.0140	0.0281	1	10/18/2018 18:07	WG1182742
Methylene Chloride	U		0.00746	0.0281	1	10/18/2018 18:07	WG1182742
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	10/18/2018 18:07	WG1182742

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/15/18 10:30

L1034970

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000331	0.00112	1	10/18/2018 18:07	WG1182742
Naphthalene	U		0.00350	0.0140	1	10/18/2018 18:07	WG1182742
n-Propylbenzene	U		0.00133	0.00562	1	10/18/2018 18:07	WG1182742
Styrene	U		0.00307	0.0140	1	10/18/2018 18:07	WG1182742
1,1,1,2-Tetrachloroethane	U		0.000562	0.00281	1	10/18/2018 18:07	WG1182742
1,1,2,2-Tetrachloroethane	U		0.000438	0.00281	1	10/18/2018 18:07	WG1182742
1,1,2-Trichlorotrifluoroethane	U		0.000758	0.00281	1	10/18/2018 18:07	WG1182742
Tetrachloroethene	18.2	<u>J0</u>	0.0629	0.225	80	10/21/2018 17:35	WG1184188
Toluene	U		0.00140	0.00562	1	10/18/2018 18:07	WG1182742
1,2,3-Trichlorobenzene	U		0.000702	0.00281	1	10/18/2018 18:07	WG1182742
1,2,4-Trichlorobenzene	U		0.00541	0.0140	1	10/18/2018 18:07	WG1182742
1,1,1-Trichloroethane	U		0.000309	0.00281	1	10/18/2018 18:07	WG1182742
1,1,2-Trichloroethane	U	<u>J4</u>	0.000992	0.00281	1	10/18/2018 18:07	WG1182742
Trichloroethene	0.553		0.000449	0.00112	1	10/18/2018 18:07	WG1182742
Trichlorofluoromethane	U		0.000562	0.00281	1	10/18/2018 18:07	WG1182742
1,2,3-Trichloropropane	U		0.00573	0.0140	1	10/18/2018 18:07	WG1182742
1,2,4-Trimethylbenzene	U	<u>J4</u>	0.00130	0.00562	1	10/18/2018 18:07	WG1182742
1,2,3-Trimethylbenzene	U		0.00129	0.00562	1	10/18/2018 18:07	WG1182742
1,3,5-Trimethylbenzene	U		0.00121	0.00562	1	10/18/2018 18:07	WG1182742
Vinyl acetate	U		0.00395	0.0140	1	10/18/2018 18:07	WG1182742
Vinyl chloride	U		0.000767	0.00281	1	10/18/2018 18:07	WG1182742
Xylenes, Total	U		0.00537	0.00730	1	10/18/2018 18:07	WG1182742
(S) Toluene-d8	118			75.0-131		10/18/2018 18:07	WG1182742
(S) Toluene-d8	98.4			75.0-131		10/21/2018 17:35	WG1184188
(S) Dibromofluoromethane	79.5			65.0-129		10/18/2018 18:07	WG1182742
(S) Dibromofluoromethane	116			65.0-129		10/21/2018 17:35	WG1184188
(S) 4-Bromofluorobenzene	98.9			67.0-138		10/18/2018 18:07	WG1182742
(S) 4-Bromofluorobenzene	127			67.0-138		10/21/2018 17:35	WG1184188

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	86.3		1	10/19/2018 13:51	WG1183343

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.635	1.16	40	10/21/2018 17:55	WG1184188
Acrylonitrile	U		0.00220	0.0145	1	10/18/2018 18:27	WG1182742
Benzene	U		0.000463	0.00116	1	10/18/2018 18:27	WG1182742
Bromobenzene	U		0.00122	0.0145	1	10/18/2018 18:27	WG1182742
Bromodichloromethane	U		0.000913	0.00290	1	10/18/2018 18:27	WG1182742
Bromochloromethane	U		0.00131	0.00579	1	10/18/2018 18:27	WG1182742
Bromoform	U		0.00693	0.0290	1	10/18/2018 18:27	WG1182742
Bromomethane	U		0.00429	0.0145	1	10/18/2018 18:27	WG1182742
n-Butylbenzene	U		0.00445	0.0145	1	10/18/2018 18:27	WG1182742
sec-Butylbenzene	U		0.00293	0.0145	1	10/18/2018 18:27	WG1182742
tert-Butylbenzene	U		0.00180	0.00579	1	10/18/2018 18:27	WG1182742
Carbon disulfide	U		0.00470	0.0145	1	10/18/2018 18:27	WG1182742
Carbon tetrachloride	U		0.00125	0.00579	1	10/18/2018 18:27	WG1182742
Chlorobenzene	U		0.000664	0.00290	1	10/18/2018 18:27	WG1182742
Chlorodibromomethane	U		0.000521	0.00290	1	10/18/2018 18:27	WG1182742
Chloroethane	U		0.00125	0.00579	1	10/18/2018 18:27	WG1182742
Chloroform	0.000752	J	0.000481	0.00290	1	10/18/2018 18:27	WG1182742
Chloromethane	U		0.00161	0.0145	1	10/18/2018 18:27	WG1182742
2-Chlorotoluene	U		0.00107	0.00290	1	10/18/2018 18:27	WG1182742
4-Chlorotoluene	U		0.00131	0.00579	1	10/18/2018 18:27	WG1182742
1,2-Dibromo-3-Chloropropane	U		0.00591	0.0290	1	10/18/2018 18:27	WG1182742
1,2-Dibromoethane	U		0.000608	0.00290	1	10/18/2018 18:27	WG1182742
Dibromomethane	U	J4	0.00116	0.00579	1	10/18/2018 18:27	WG1182742
1,2-Dichlorobenzene	U		0.00168	0.00579	1	10/18/2018 18:27	WG1182742
1,3-Dichlorobenzene	U		0.00197	0.00579	1	10/18/2018 18:27	WG1182742
1,4-Dichlorobenzene	U		0.00228	0.00579	1	10/18/2018 18:27	WG1182742
Dichlorodifluoromethane	U		0.000947	0.00290	1	10/18/2018 18:27	WG1182742
1,1-Dichloroethane	U		0.000666	0.00290	1	10/18/2018 18:27	WG1182742
1,2-Dichloroethane	U		0.000550	0.00290	1	10/18/2018 18:27	WG1182742
1,1-Dichloroethene	0.00138	J	0.000579	0.00290	1	10/18/2018 18:27	WG1182742
cis-1,2-Dichloroethene	0.833		0.000799	0.00290	1	10/18/2018 18:27	WG1182742
trans-1,2-Dichloroethene	0.00435	J	0.00166	0.00579	1	10/18/2018 18:27	WG1182742
1,2-Dichloropropane	U		0.00147	0.00579	1	10/18/2018 18:27	WG1182742
1,1-Dichloropropene	U		0.000811	0.00290	1	10/18/2018 18:27	WG1182742
1,3-Dichloropropane	U		0.00203	0.00579	1	10/18/2018 18:27	WG1182742
cis-1,3-Dichloropropene	U		0.000785	0.00290	1	10/18/2018 18:27	WG1182742
trans-1,3-Dichloropropene	U		0.00177	0.00579	1	10/18/2018 18:27	WG1182742
trans-1,4-Dichloro-2-butene	U		0.00162	0.00579	1	10/18/2018 18:27	WG1182742
2,2-Dichloropropane	U		0.000919	0.00290	1	10/18/2018 18:27	WG1182742
Di-isopropyl ether	U		0.000405	0.00116	1	10/18/2018 18:27	WG1182742
Ethylbenzene	U		0.000614	0.00290	1	10/18/2018 18:27	WG1182742
Hexachloro-1,3-butadiene	U		0.0147	0.0290	1	10/18/2018 18:27	WG1182742
2-Hexanone	U		0.0116	0.0290	1	10/18/2018 18:27	WG1182742
n-Hexane	0.00134	J	0.00123	0.00579	1	10/18/2018 18:27	WG1182742
Iodomethane	U		0.00701	0.0145	1	10/18/2018 18:27	WG1182742
Isopropylbenzene	U		0.00100	0.00290	1	10/18/2018 18:27	WG1182742
p-Isopropyltoluene	U		0.00270	0.00579	1	10/18/2018 18:27	WG1182742
2-Butanone (MEK)	U		0.0145	0.0290	1	10/18/2018 18:27	WG1182742
Methylene Chloride	U		0.00769	0.0290	1	10/18/2018 18:27	WG1182742
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1	10/18/2018 18:27	WG1182742

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/15/18 10:40

L1034970

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000342	0.00116	1	10/18/2018 18:27	WG1182742
Naphthalene	U		0.00361	0.0145	1	10/18/2018 18:27	WG1182742
n-Propylbenzene	U		0.00137	0.00579	1	10/18/2018 18:27	WG1182742
Styrene	U		0.00316	0.0145	1	10/18/2018 18:27	WG1182742
1,1,1,2-Tetrachloroethane	U		0.000579	0.00290	1	10/18/2018 18:27	WG1182742
1,1,2,2-Tetrachloroethane	U		0.000452	0.00290	1	10/18/2018 18:27	WG1182742
1,1,2-Trichlorotrifluoroethane	U		0.000782	0.00290	1	10/18/2018 18:27	WG1182742
Tetrachloroethene	8.68	<u>JO</u>	0.0324	0.116	40	10/21/2018 17:55	WG1184188
Toluene	U		0.00145	0.00579	1	10/18/2018 18:27	WG1182742
1,2,3-Trichlorobenzene	U		0.000724	0.00290	1	10/18/2018 18:27	WG1182742
1,2,4-Trichlorobenzene	U		0.00558	0.0145	1	10/18/2018 18:27	WG1182742
1,1,1-Trichloroethane	U		0.000319	0.00290	1	10/18/2018 18:27	WG1182742
1,1,2-Trichloroethane	U	<u>J4</u>	0.00102	0.00290	1	10/18/2018 18:27	WG1182742
Trichloroethene	0.528		0.000463	0.00116	1	10/18/2018 18:27	WG1182742
Trichlorofluoromethane	U		0.000579	0.00290	1	10/18/2018 18:27	WG1182742
1,2,3-Trichloropropane	U		0.00591	0.0145	1	10/18/2018 18:27	WG1182742
1,2,4-Trimethylbenzene	U	<u>J4</u>	0.00134	0.00579	1	10/18/2018 18:27	WG1182742
1,2,3-Trimethylbenzene	U		0.00133	0.00579	1	10/18/2018 18:27	WG1182742
1,3,5-Trimethylbenzene	U		0.00125	0.00579	1	10/18/2018 18:27	WG1182742
Vinyl acetate	U		0.00408	0.0145	1	10/18/2018 18:27	WG1182742
Vinyl chloride	0.00304		0.000791	0.00290	1	10/18/2018 18:27	WG1182742
Xylenes, Total	U		0.00554	0.00753	1	10/18/2018 18:27	WG1182742
(S) Toluene-d8	117			75.0-131		10/18/2018 18:27	WG1182742
(S) Toluene-d8	100			75.0-131		10/21/2018 17:55	WG1184188
(S) Dibromofluoromethane	77.8			65.0-129		10/18/2018 18:27	WG1182742
(S) Dibromofluoromethane	118			65.0-129		10/21/2018 17:55	WG1184188
(S) 4-Bromofluorobenzene	102			67.0-138		10/18/2018 18:27	WG1182742
(S) 4-Bromofluorobenzene	125			67.0-138		10/21/2018 17:55	WG1184188

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Collected date/time: 10/15/18 11:20

L1034970

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.4		1	10/16/2018 14:25	WG1181703

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		10.0	18.3	670	10/17/2018 13:32	WG1182096
Acrylonitrile	U		0.00208	0.0137	1	10/16/2018 19:21	WG1181654
Benzene	U		0.000438	0.00109	1	10/16/2018 19:21	WG1181654
Bromobenzene	U		0.00115	0.0137	1	10/16/2018 19:21	WG1181654
Bromodichloromethane	U		0.000862	0.00273	1	10/16/2018 19:21	WG1181654
Bromochloromethane	U		0.00124	0.00547	1	10/16/2018 19:21	WG1181654
Bromoform	U		0.00654	0.0273	1	10/16/2018 19:21	WG1181654
Bromomethane	U		0.00405	0.0137	1	10/16/2018 19:21	WG1181654
n-Butylbenzene	U		0.00420	0.0137	1	10/16/2018 19:21	WG1181654
sec-Butylbenzene	U		0.00277	0.0137	1	10/16/2018 19:21	WG1181654
tert-Butylbenzene	U		0.00170	0.00547	1	10/16/2018 19:21	WG1181654
Carbon disulfide	U		0.00444	0.0137	1	10/16/2018 19:21	WG1181654
Carbon tetrachloride	U		0.00118	0.00547	1	10/16/2018 19:21	WG1181654
Chlorobenzene	U		0.000627	0.00273	1	10/16/2018 19:21	WG1181654
Chlorodibromomethane	U		0.000492	0.00273	1	10/16/2018 19:21	WG1181654
Chloroethane	U		0.00118	0.00547	1	10/16/2018 19:21	WG1181654
Chloroform	0.000592	B J	0.000454	0.00273	1	10/16/2018 19:21	WG1181654
Chloromethane	U		0.00152	0.0137	1	10/16/2018 19:21	WG1181654
2-Chlorotoluene	U		0.00101	0.00273	1	10/16/2018 19:21	WG1181654
4-Chlorotoluene	U		0.00124	0.00547	1	10/16/2018 19:21	WG1181654
1,2-Dibromo-3-Chloropropane	U		0.00558	0.0273	1	10/16/2018 19:21	WG1181654
1,2-Dibromoethane	U		0.000574	0.00273	1	10/16/2018 19:21	WG1181654
Dibromomethane	U	J4	0.00109	0.00547	1	10/16/2018 19:21	WG1181654
1,2-Dichlorobenzene	U		0.00159	0.00547	1	10/16/2018 19:21	WG1181654
1,3-Dichlorobenzene	U		0.00186	0.00547	1	10/16/2018 19:21	WG1181654
1,4-Dichlorobenzene	U		0.00215	0.00547	1	10/16/2018 19:21	WG1181654
Dichlorodifluoromethane	U		0.000895	0.00273	1	10/16/2018 19:21	WG1181654
1,1-Dichloroethane	U		0.000629	0.00273	1	10/16/2018 19:21	WG1181654
1,2-Dichloroethane	U		0.000520	0.00273	1	10/16/2018 19:21	WG1181654
1,1-Dichloroethene	0.00105	J	0.000547	0.00273	1	10/16/2018 19:21	WG1181654
cis-1,2-Dichloroethene	0.614		0.000755	0.00273	1	10/16/2018 19:21	WG1181654
trans-1,2-Dichloroethene	0.00344	J	0.00156	0.00547	1	10/16/2018 19:21	WG1181654
1,2-Dichloropropane	U		0.00139	0.00547	1	10/16/2018 19:21	WG1181654
1,1-Dichloropropene	U		0.000766	0.00273	1	10/16/2018 19:21	WG1181654
1,3-Dichloropropane	U		0.00191	0.00547	1	10/16/2018 19:21	WG1181654
cis-1,3-Dichloropropene	U		0.000742	0.00273	1	10/16/2018 19:21	WG1181654
trans-1,3-Dichloropropene	U		0.00167	0.00547	1	10/16/2018 19:21	WG1181654
trans-1,4-Dichloro-2-butene	U		0.00153	0.00547	1	10/16/2018 19:21	WG1181654
2,2-Dichloropropane	U		0.000867	0.00273	1	10/16/2018 19:21	WG1181654
Di-isopropyl ether	U		0.000383	0.00109	1	10/16/2018 19:21	WG1181654
Ethylbenzene	U		0.000580	0.00273	1	10/16/2018 19:21	WG1181654
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	10/16/2018 19:21	WG1181654
2-Hexanone	U		0.0109	0.0273	1	10/16/2018 19:21	WG1181654
n-Hexane	U		0.00116	0.00547	1	10/16/2018 19:21	WG1181654
Iodomethane	U		0.00662	0.0137	1	10/16/2018 19:21	WG1181654
Isopropylbenzene	U		0.000944	0.00273	1	10/16/2018 19:21	WG1181654
p-Isopropyltoluene	U		0.00255	0.00547	1	10/16/2018 19:21	WG1181654
2-Butanone (MEK)	U		0.0137	0.0273	1	10/16/2018 19:21	WG1181654
Methylene Chloride	U		0.00726	0.0273	1	10/16/2018 19:21	WG1181654
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	10/16/2018 19:21	WG1181654

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/15/18 11:20

L1034970

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U	<u>J0</u>	0.000323	0.00109	1	10/16/2018 19:21	WG1181654
Naphthalene	U		0.00341	0.0137	1	10/16/2018 19:21	WG1181654
n-Propylbenzene	U		0.00129	0.00547	1	10/16/2018 19:21	WG1181654
Styrene	U		0.00299	0.0137	1	10/16/2018 19:21	WG1181654
1,1,1,2-Tetrachloroethane	U		0.000547	0.00273	1	10/16/2018 19:21	WG1181654
1,1,2,2-Tetrachloroethane	U	<u>J4</u>	0.000427	0.00273	1	10/16/2018 19:21	WG1181654
1,1,2-Trichlorotrifluoroethane	U		0.000738	0.00273	1	10/16/2018 19:21	WG1181654
Tetrachloroethene	7.69		0.513	1.83	670	10/17/2018 13:32	WG1182096
Toluene	U		0.00137	0.00547	1	10/16/2018 19:21	WG1181654
1,2,3-Trichlorobenzene	U		0.000684	0.00273	1	10/16/2018 19:21	WG1181654
1,2,4-Trichlorobenzene	U		0.00527	0.0137	1	10/16/2018 19:21	WG1181654
1,1,1-Trichloroethane	U		0.000301	0.00273	1	10/16/2018 19:21	WG1181654
1,1,2-Trichloroethane	U	<u>J4</u>	0.000966	0.00273	1	10/16/2018 19:21	WG1181654
Trichloroethene	0.407		0.000438	0.00109	1	10/16/2018 19:21	WG1181654
Trichlorofluoromethane	U		0.000547	0.00273	1	10/16/2018 19:21	WG1181654
1,2,3-Trichloropropane	U		0.00558	0.0137	1	10/16/2018 19:21	WG1181654
1,2,4-Trimethylbenzene	0.00130	<u>J</u>	0.00127	0.00547	1	10/16/2018 19:21	WG1181654
1,2,3-Trimethylbenzene	U		0.00126	0.00547	1	10/16/2018 19:21	WG1181654
1,3,5-Trimethylbenzene	U		0.00118	0.00547	1	10/16/2018 19:21	WG1181654
Vinyl acetate	U		0.00385	0.0137	1	10/16/2018 19:21	WG1181654
Vinyl chloride	0.00318		0.000747	0.00273	1	10/16/2018 19:21	WG1181654
Xylenes, Total	U		0.00523	0.00711	1	10/16/2018 19:21	WG1181654
(S) Toluene-d8	118			75.0-131		10/16/2018 19:21	WG1181654
(S) Toluene-d8	101			75.0-131		10/17/2018 13:32	WG1182096
(S) Dibromofluoromethane	77.0			65.0-129		10/16/2018 19:21	WG1181654
(S) Dibromofluoromethane	120			65.0-129		10/17/2018 13:32	WG1182096
(S) 4-Bromofluorobenzene	102			67.0-138		10/16/2018 19:21	WG1181654
(S) 4-Bromofluorobenzene	117			67.0-138		10/17/2018 13:32	WG1182096

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.2		1	10/19/2018 13:51	WG1183343

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0144	0.0263	1	10/21/2018 14:55	WG1184188
Acrylonitrile	U	J3	0.00200	0.0131	1	10/18/2018 18:47	WG1182742
Benzene	U		0.000420	0.00105	1	10/18/2018 18:47	WG1182742
Bromobenzene	U		0.00110	0.0131	1	10/18/2018 18:47	WG1182742
Bromodichloromethane	U		0.000828	0.00263	1	10/18/2018 18:47	WG1182742
Bromochloromethane	U		0.00119	0.00525	1	10/18/2018 18:47	WG1182742
Bromoform	U		0.00628	0.0263	1	10/18/2018 18:47	WG1182742
Bromomethane	U		0.00389	0.0131	1	10/18/2018 18:47	WG1182742
n-Butylbenzene	U		0.00403	0.0131	1	10/18/2018 18:47	WG1182742
sec-Butylbenzene	U		0.00266	0.0131	1	10/18/2018 18:47	WG1182742
tert-Butylbenzene	U		0.00163	0.00525	1	10/18/2018 18:47	WG1182742
Carbon disulfide	U		0.00427	0.0131	1	10/18/2018 18:47	WG1182742
Carbon tetrachloride	U		0.00113	0.00525	1	10/18/2018 18:47	WG1182742
Chlorobenzene	U		0.000602	0.00263	1	10/18/2018 18:47	WG1182742
Chlorodibromomethane	U		0.000473	0.00263	1	10/18/2018 18:47	WG1182742
Chloroethane	U		0.00113	0.00525	1	10/18/2018 18:47	WG1182742
Chloroform	0.000670	J	0.000436	0.00263	1	10/18/2018 18:47	WG1182742
Chloromethane	U		0.00146	0.0131	1	10/18/2018 18:47	WG1182742
2-Chlorotoluene	U		0.000967	0.00263	1	10/18/2018 18:47	WG1182742
4-Chlorotoluene	U		0.00119	0.00525	1	10/18/2018 18:47	WG1182742
1,2-Dibromo-3-Chloropropane	U		0.00536	0.0263	1	10/18/2018 18:47	WG1182742
1,2-Dibromoethane	U		0.000552	0.00263	1	10/18/2018 18:47	WG1182742
Dibromomethane	U	J4	0.00105	0.00525	1	10/18/2018 18:47	WG1182742
1,2-Dichlorobenzene	U		0.00152	0.00525	1	10/18/2018 18:47	WG1182742
1,3-Dichlorobenzene	U		0.00179	0.00525	1	10/18/2018 18:47	WG1182742
1,4-Dichlorobenzene	U		0.00207	0.00525	1	10/18/2018 18:47	WG1182742
Dichlorodifluoromethane	U		0.000859	0.00263	1	10/18/2018 18:47	WG1182742
1,1-Dichloroethane	U		0.000604	0.00263	1	10/18/2018 18:47	WG1182742
1,2-Dichloroethane	U		0.000499	0.00263	1	10/18/2018 18:47	WG1182742
1,1-Dichloroethene	U		0.000525	0.00263	1	10/18/2018 18:47	WG1182742
cis-1,2-Dichloroethene	0.0153		0.000725	0.00263	1	10/21/2018 14:55	WG1184188
trans-1,2-Dichloroethene	U		0.00150	0.00525	1	10/18/2018 18:47	WG1182742
1,2-Dichloropropane	U		0.00133	0.00525	1	10/18/2018 18:47	WG1182742
1,1-Dichloropropene	U		0.000735	0.00263	1	10/18/2018 18:47	WG1182742
1,3-Dichloropropane	U		0.00184	0.00525	1	10/18/2018 18:47	WG1182742
cis-1,3-Dichloropropene	U		0.000712	0.00263	1	10/18/2018 18:47	WG1182742
trans-1,3-Dichloropropene	U		0.00161	0.00525	1	10/18/2018 18:47	WG1182742
trans-1,4-Dichloro-2-butene	U		0.00147	0.00525	1	10/18/2018 18:47	WG1182742
2,2-Dichloropropane	U		0.000833	0.00263	1	10/18/2018 18:47	WG1182742
Di-isopropyl ether	U		0.000368	0.00105	1	10/18/2018 18:47	WG1182742
Ethylbenzene	U		0.000557	0.00263	1	10/18/2018 18:47	WG1182742
Hexachloro-1,3-butadiene	U		0.0133	0.0263	1	10/18/2018 18:47	WG1182742
2-Hexanone	U		0.0105	0.0263	1	10/18/2018 18:47	WG1182742
n-Hexane	U		0.00111	0.00525	1	10/18/2018 18:47	WG1182742
Iodomethane	U		0.00636	0.0131	1	10/18/2018 18:47	WG1182742
Isopropylbenzene	U		0.000907	0.00263	1	10/18/2018 18:47	WG1182742
p-Isopropyltoluene	U		0.00245	0.00525	1	10/18/2018 18:47	WG1182742
2-Butanone (MEK)	U		0.0131	0.0263	1	10/18/2018 18:47	WG1182742
Methylene Chloride	U		0.00698	0.0263	1	10/18/2018 18:47	WG1182742
4-Methyl-2-pentanone (MIBK)	U		0.0105	0.0263	1	10/18/2018 18:47	WG1182742

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/15/18 12:35

L1034970

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000310	0.00105	1	10/18/2018 18:47	WG1182742
Naphthalene	U		0.00328	0.0131	1	10/18/2018 18:47	WG1182742
n-Propylbenzene	U		0.00124	0.00525	1	10/18/2018 18:47	WG1182742
Styrene	U		0.00287	0.0131	1	10/18/2018 18:47	WG1182742
1,1,1,2-Tetrachloroethane	U		0.000525	0.00263	1	10/18/2018 18:47	WG1182742
1,1,2,2-Tetrachloroethane	U		0.000410	0.00263	1	10/18/2018 18:47	WG1182742
1,1,2-Trichlorotrifluoroethane	U		0.000709	0.00263	1	10/18/2018 18:47	WG1182742
Tetrachloroethene	0.0286		0.000735	0.00263	1	10/21/2018 14:55	WG1184188
Toluene	U		0.00131	0.00525	1	10/18/2018 18:47	WG1182742
1,2,3-Trichlorobenzene	U		0.000657	0.00263	1	10/18/2018 18:47	WG1182742
1,2,4-Trichlorobenzene	U		0.00506	0.0131	1	10/18/2018 18:47	WG1182742
1,1,1-Trichloroethane	U		0.000289	0.00263	1	10/18/2018 18:47	WG1182742
1,1,2-Trichloroethane	U	<u>J4</u>	0.000928	0.00263	1	10/18/2018 18:47	WG1182742
Trichloroethene	0.146		0.000420	0.00105	1	10/22/2018 11:39	WG1184438
Trichlorofluoromethane	U		0.000525	0.00263	1	10/18/2018 18:47	WG1182742
1,2,3-Trichloropropane	U		0.00536	0.0131	1	10/18/2018 18:47	WG1182742
1,2,4-Trimethylbenzene	U	<u>J4</u>	0.00122	0.00525	1	10/18/2018 18:47	WG1182742
1,2,3-Trimethylbenzene	U		0.00121	0.00525	1	10/18/2018 18:47	WG1182742
1,3,5-Trimethylbenzene	U		0.00113	0.00525	1	10/18/2018 18:47	WG1182742
Vinyl acetate	U	<u>J3</u>	0.00370	0.0131	1	10/18/2018 18:47	WG1182742
Vinyl chloride	U	<u>J6</u>	0.000718	0.00263	1	10/18/2018 18:47	WG1182742
Xylenes, Total	U		0.00502	0.00683	1	10/18/2018 18:47	WG1182742
(S) Toluene-d8	118			75.0-131		10/18/2018 18:47	WG1182742
(S) Toluene-d8	100			75.0-131		10/21/2018 14:55	WG1184188
(S) Toluene-d8	113			75.0-131		10/22/2018 11:39	WG1184438
(S) Dibromofluoromethane	76.0			65.0-129		10/18/2018 18:47	WG1182742
(S) Dibromofluoromethane	112			65.0-129		10/21/2018 14:55	WG1184188
(S) Dibromofluoromethane	87.3			65.0-129		10/22/2018 11:39	WG1184438
(S) 4-Bromofluorobenzene	88.8			67.0-138		10/18/2018 18:47	WG1182742
(S) 4-Bromofluorobenzene	118			67.0-138		10/21/2018 14:55	WG1184188
(S) 4-Bromofluorobenzene	88.0			67.0-138		10/22/2018 11:39	WG1184438

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

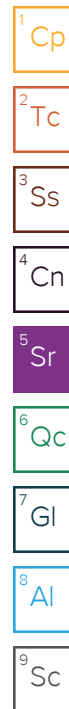


Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.2		1	10/19/2018 13:51	WG1183343

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0152	0.0277	1	10/19/2018 21:50	WG1183157
Acrylonitrile	U		0.00211	0.0139	1	10/19/2018 21:50	WG1183157
Benzene	U		0.000444	0.00111	1	10/19/2018 21:50	WG1183157
Bromobenzene	U		0.00116	0.0139	1	10/19/2018 21:50	WG1183157
Bromodichloromethane	U		0.000874	0.00277	1	10/19/2018 21:50	WG1183157
Bromochloromethane	U		0.00125	0.00555	1	10/19/2018 21:50	WG1183157
Bromoform	U	JO	0.00663	0.0277	1	10/19/2018 21:50	WG1183157
Bromomethane	U		0.00410	0.0139	1	10/19/2018 21:50	WG1183157
n-Butylbenzene	U		0.00426	0.0139	1	10/19/2018 21:50	WG1183157
sec-Butylbenzene	U		0.00281	0.0139	1	10/19/2018 21:50	WG1183157
tert-Butylbenzene	U		0.00172	0.00555	1	10/19/2018 21:50	WG1183157
Carbon disulfide	U	JO	0.00450	0.0139	1	10/19/2018 21:50	WG1183157
Carbon tetrachloride	U		0.00120	0.00555	1	10/19/2018 21:50	WG1183157
Chlorobenzene	U		0.000636	0.00277	1	10/19/2018 21:50	WG1183157
Chlorodibromomethane	U		0.000499	0.00277	1	10/19/2018 21:50	WG1183157
Chloroethane	U		0.00120	0.00555	1	10/19/2018 21:50	WG1183157
Chloroform	0.000707	B J	0.000460	0.00277	1	10/19/2018 21:50	WG1183157
Chloromethane	U		0.00154	0.0139	1	10/19/2018 21:50	WG1183157
2-Chlorotoluene	U		0.00102	0.00277	1	10/19/2018 21:50	WG1183157
4-Chlorotoluene	U		0.00125	0.00555	1	10/19/2018 21:50	WG1183157
1,2-Dibromo-3-Chloropropane	U	JO	0.00566	0.0277	1	10/19/2018 21:50	WG1183157
1,2-Dibromoethane	U		0.000582	0.00277	1	10/19/2018 21:50	WG1183157
Dibromomethane	U		0.00111	0.00555	1	10/19/2018 21:50	WG1183157
1,2-Dichlorobenzene	U		0.00161	0.00555	1	10/19/2018 21:50	WG1183157
1,3-Dichlorobenzene	U		0.00189	0.00555	1	10/19/2018 21:50	WG1183157
1,4-Dichlorobenzene	U		0.00219	0.00555	1	10/19/2018 21:50	WG1183157
Dichlorodifluoromethane	U		0.000907	0.00277	1	10/19/2018 21:50	WG1183157
1,1-Dichloroethane	U		0.000638	0.00277	1	10/19/2018 21:50	WG1183157
1,2-Dichloroethane	U		0.000527	0.00277	1	10/19/2018 21:50	WG1183157
1,1-Dichloroethene	U		0.000555	0.00277	1	10/19/2018 21:50	WG1183157
cis-1,2-Dichloroethene	0.0879		0.000765	0.00277	1	10/19/2018 21:50	WG1183157
trans-1,2-Dichloroethene	U		0.00159	0.00555	1	10/19/2018 21:50	WG1183157
1,2-Dichloropropane	U		0.00141	0.00555	1	10/22/2018 16:23	WG1184604
1,1-Dichloropropene	U		0.000776	0.00277	1	10/19/2018 21:50	WG1183157
1,3-Dichloropropane	U		0.00194	0.00555	1	10/19/2018 21:50	WG1183157
cis-1,3-Dichloropropene	U		0.000752	0.00277	1	10/19/2018 21:50	WG1183157
trans-1,3-Dichloropropene	U		0.00170	0.00555	1	10/19/2018 21:50	WG1183157
trans-1,4-Dichloro-2-butene	U		0.00155	0.00555	1	10/19/2018 21:50	WG1183157
2,2-Dichloropropane	U		0.000880	0.00277	1	10/19/2018 21:50	WG1183157
Di-isopropyl ether	U		0.000388	0.00111	1	10/19/2018 21:50	WG1183157
Ethylbenzene	U		0.000588	0.00277	1	10/19/2018 21:50	WG1183157
Hexachloro-1,3-butadiene	U	JO	0.0141	0.0277	1	10/19/2018 21:50	WG1183157
2-Hexanone	U		0.0111	0.0277	1	10/19/2018 21:50	WG1183157
n-Hexane	U		0.00118	0.00555	1	10/19/2018 21:50	WG1183157
Iodomethane	U		0.00671	0.0139	1	10/19/2018 21:50	WG1183157
Isopropylbenzene	U		0.000957	0.00277	1	10/19/2018 21:50	WG1183157
p-Isopropyltoluene	U		0.00258	0.00555	1	10/19/2018 21:50	WG1183157
2-Butanone (MEK)	0.0603	JO	0.0139	0.0277	1	10/22/2018 16:23	WG1184604
Methylene Chloride	U		0.00737	0.0277	1	10/19/2018 21:50	WG1183157
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0277	1	10/19/2018 21:50	WG1183157





Collected date/time: 10/15/18 12:45

L1034970

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000327	0.0011	1	10/19/2018 21:50	WG1183157
Naphthalene	U		0.00346	0.0139	1	10/19/2018 21:50	WG1183157
n-Propylbenzene	U		0.00131	0.00555	1	10/19/2018 21:50	WG1183157
Styrene	U	<u>JO</u>	0.00303	0.0139	1	10/19/2018 21:50	WG1183157
1,1,1,2-Tetrachloroethane	U		0.000555	0.00277	1	10/19/2018 21:50	WG1183157
1,1,2,2-Tetrachloroethane	U		0.000433	0.00277	1	10/19/2018 21:50	WG1183157
1,1,2-Trichlorotrifluoroethane	U		0.000749	0.00277	1	10/19/2018 21:50	WG1183157
Tetrachloroethene	0.230		0.000776	0.00277	1	10/19/2018 21:50	WG1183157
Toluene	U		0.00139	0.00555	1	10/19/2018 21:50	WG1183157
1,2,3-Trichlorobenzene	U		0.000693	0.00277	1	10/19/2018 21:50	WG1183157
1,2,4-Trichlorobenzene	U		0.00535	0.0139	1	10/19/2018 21:50	WG1183157
1,1,1-Trichloroethane	U		0.000305	0.00277	1	10/19/2018 21:50	WG1183157
1,1,2-Trichloroethane	0.00157	<u>J</u>	0.000979	0.00277	1	10/22/2018 16:23	WG1184604
Trichloroethene	0.135		0.000444	0.0011	1	10/19/2018 21:50	WG1183157
Trichlorofluoromethane	U		0.000555	0.00277	1	10/19/2018 21:50	WG1183157
1,2,3-Trichloropropane	U		0.00566	0.0139	1	10/19/2018 21:50	WG1183157
1,2,4-Trimethylbenzene	U		0.00129	0.00555	1	10/19/2018 21:50	WG1183157
1,2,3-Trimethylbenzene	U		0.00128	0.00555	1	10/19/2018 21:50	WG1183157
1,3,5-Trimethylbenzene	U		0.00120	0.00555	1	10/19/2018 21:50	WG1183157
Vinyl acetate	U		0.00390	0.0139	1	10/19/2018 21:50	WG1183157
Vinyl chloride	U		0.000758	0.00277	1	10/19/2018 21:50	WG1183157
Xylenes, Total	U		0.00530	0.00721	1	10/19/2018 21:50	WG1183157
(S) Toluene-d8	127			75.0-131		10/19/2018 21:50	WG1183157
(S) Toluene-d8	97.8			75.0-131		10/22/2018 16:23	WG1184604
(S) Dibromofluoromethane	96.3			65.0-129		10/19/2018 21:50	WG1183157
(S) Dibromofluoromethane	114			65.0-129		10/22/2018 16:23	WG1184604
(S) 4-Bromofluorobenzene	97.7			67.0-138		10/19/2018 21:50	WG1183157
(S) 4-Bromofluorobenzene	117			67.0-138		10/22/2018 16:23	WG1184604

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.9		1	10/19/2018 13:51	WG1183343

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0152	0.0278	1	10/19/2018 22:11	WG1183157
Acrylonitrile	U		0.00211	0.0139	1	10/19/2018 22:11	WG1183157
Benzene	U		0.000445	0.00111	1	10/19/2018 22:11	WG1183157
Bromobenzene	U		0.00117	0.0139	1	10/19/2018 22:11	WG1183157
Bromodichloromethane	U		0.000877	0.00278	1	10/19/2018 22:11	WG1183157
Bromochloromethane	U		0.00126	0.00556	1	10/19/2018 22:11	WG1183157
Bromoform	U	JO	0.00665	0.0278	1	10/19/2018 22:11	WG1183157
Bromomethane	U		0.00412	0.0139	1	10/19/2018 22:11	WG1183157
n-Butylbenzene	U		0.00427	0.0139	1	10/19/2018 22:11	WG1183157
sec-Butylbenzene	U		0.00281	0.0139	1	10/19/2018 22:11	WG1183157
tert-Butylbenzene	U		0.00172	0.00556	1	10/19/2018 22:11	WG1183157
Carbon disulfide	U	JO	0.00452	0.0139	1	10/19/2018 22:11	WG1183157
Carbon tetrachloride	U		0.00120	0.00556	1	10/19/2018 22:11	WG1183157
Chlorobenzene	U		0.000637	0.00278	1	10/19/2018 22:11	WG1183157
Chlorodibromomethane	U		0.000501	0.00278	1	10/19/2018 22:11	WG1183157
Chloroethane	U		0.00120	0.00556	1	10/19/2018 22:11	WG1183157
Chloroform	0.000940	B J	0.000462	0.00278	1	10/19/2018 22:11	WG1183157
Chloromethane	U		0.00155	0.0139	1	10/19/2018 22:11	WG1183157
2-Chlorotoluene	U		0.00102	0.00278	1	10/19/2018 22:11	WG1183157
4-Chlorotoluene	U		0.00126	0.00556	1	10/19/2018 22:11	WG1183157
1,2-Dibromo-3-Chloropropane	U	JO	0.00567	0.0278	1	10/19/2018 22:11	WG1183157
1,2-Dibromoethane	U		0.000584	0.00278	1	10/19/2018 22:11	WG1183157
Dibromomethane	U		0.00111	0.00556	1	10/19/2018 22:11	WG1183157
1,2-Dichlorobenzene	U		0.00161	0.00556	1	10/19/2018 22:11	WG1183157
1,3-Dichlorobenzene	U		0.00189	0.00556	1	10/19/2018 22:11	WG1183157
1,4-Dichlorobenzene	U		0.00219	0.00556	1	10/19/2018 22:11	WG1183157
Dichlorodifluoromethane	U		0.000910	0.00278	1	10/19/2018 22:11	WG1183157
1,1-Dichloroethane	U		0.000640	0.00278	1	10/19/2018 22:11	WG1183157
1,2-Dichloroethane	U		0.000528	0.00278	1	10/19/2018 22:11	WG1183157
1,1-Dichloroethene	U		0.000556	0.00278	1	10/19/2018 22:11	WG1183157
cis-1,2-Dichloroethene	0.0191		0.000768	0.00278	1	10/19/2018 22:11	WG1183157
trans-1,2-Dichloroethene	U		0.00159	0.00556	1	10/19/2018 22:11	WG1183157
1,2-Dichloropropane	U		0.0565	0.222	40	10/22/2018 20:23	WG1184604
1,1-Dichloropropene	U		0.000779	0.00278	1	10/19/2018 22:11	WG1183157
1,3-Dichloropropane	U		0.00195	0.00556	1	10/19/2018 22:11	WG1183157
cis-1,3-Dichloropropene	U		0.000754	0.00278	1	10/19/2018 22:11	WG1183157
trans-1,3-Dichloropropene	U		0.00170	0.00556	1	10/19/2018 22:11	WG1183157
trans-1,4-Dichloro-2-butene	U		0.00156	0.00556	1	10/19/2018 22:11	WG1183157
2,2-Dichloropropane	U		0.000882	0.00278	1	10/19/2018 22:11	WG1183157
Di-isopropyl ether	U		0.000389	0.00111	1	10/19/2018 22:11	WG1183157
Ethylbenzene	U		0.000590	0.00278	1	10/19/2018 22:11	WG1183157
Hexachloro-1,3-butadiene	U	JO	0.0141	0.0278	1	10/19/2018 22:11	WG1183157
2-Hexanone	U		0.0111	0.0278	1	10/19/2018 22:11	WG1183157
n-Hexane	U		0.00118	0.00556	1	10/19/2018 22:11	WG1183157
Iodomethane	U		0.00673	0.0139	1	10/19/2018 22:11	WG1183157
Isopropylbenzene	U		0.000960	0.00278	1	10/19/2018 22:11	WG1183157
p-Isopropyltoluene	U		0.00259	0.00556	1	10/19/2018 22:11	WG1183157
2-Butanone (MEK)	U	JO	0.556	1.11	40	10/22/2018 20:23	WG1184604
Methylene Chloride	U		0.00739	0.0278	1	10/19/2018 22:11	WG1183157
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0278	1	10/19/2018 22:11	WG1183157

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/15/18 12:42

L1034970

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000328	0.00111	1	10/19/2018 22:11	WG1183157
Naphthalene	U		0.00347	0.0139	1	10/19/2018 22:11	WG1183157
n-Propylbenzene	U		0.00131	0.00556	1	10/19/2018 22:11	WG1183157
Styrene	U	JO	0.00304	0.0139	1	10/19/2018 22:11	WG1183157
1,1,1,2-Tetrachloroethane	U		0.000556	0.00278	1	10/19/2018 22:11	WG1183157
1,1,2,2-Tetrachloroethane	U		0.000434	0.00278	1	10/19/2018 22:11	WG1183157
1,1,2-Trichlorotrifluoroethane	U		0.000751	0.00278	1	10/19/2018 22:11	WG1183157
Tetrachloroethene	10.3		0.0311	0.111	40	10/22/2018 20:23	WG1184604
Toluene	U		0.00139	0.00556	1	10/19/2018 22:11	WG1183157
1,2,3-Trichlorobenzene	U		0.000695	0.00278	1	10/19/2018 22:11	WG1183157
1,2,4-Trichlorobenzene	U		0.00536	0.0139	1	10/19/2018 22:11	WG1183157
1,1,1-Trichloroethane	U		0.000306	0.00278	1	10/19/2018 22:11	WG1183157
1,1,2-Trichloroethane	U		0.0393	0.111	40	10/22/2018 20:23	WG1184604
Trichloroethene	0.0501		0.000445	0.00111	1	10/19/2018 22:11	WG1183157
Trichlorofluoromethane	U		0.000556	0.00278	1	10/19/2018 22:11	WG1183157
1,2,3-Trichloropropane	U		0.00567	0.0139	1	10/19/2018 22:11	WG1183157
1,2,4-Trimethylbenzene	U		0.00129	0.00556	1	10/19/2018 22:11	WG1183157
1,2,3-Trimethylbenzene	U		0.00128	0.00556	1	10/19/2018 22:11	WG1183157
1,3,5-Trimethylbenzene	U		0.00120	0.00556	1	10/19/2018 22:11	WG1183157
Vinyl acetate	U		0.00392	0.0139	1	10/19/2018 22:11	WG1183157
Vinyl chloride	U		0.000760	0.00278	1	10/19/2018 22:11	WG1183157
Xylenes, Total	U		0.00532	0.00723	1	10/19/2018 22:11	WG1183157
(S) Toluene-d8	123			75.0-131		10/19/2018 22:11	WG1183157
(S) Toluene-d8	98.0			75.0-131		10/22/2018 20:23	WG1184604
(S) Dibromofluoromethane	94.8			65.0-129		10/19/2018 22:11	WG1183157
(S) Dibromofluoromethane	116			65.0-129		10/22/2018 20:23	WG1184604
(S) 4-Bromofluorobenzene	91.5			67.0-138		10/19/2018 22:11	WG1183157
(S) 4-Bromofluorobenzene	123			67.0-138		10/22/2018 20:23	WG1184604

Sample Narrative:

L1034970-14 WG1183157, WG1184604: Not all compounds reportable at lower dilution.

L1034970-14 WG1183157, WG1184604: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

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

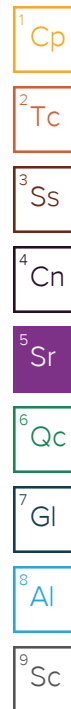


Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.4		1	10/19/2018 13:51	WG1183343

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0155	0.0283	1	10/19/2018 22:31	WG1183157
Acrylonitrile	U		0.00215	0.0141	1	10/19/2018 22:31	WG1183157
Benzene	U		0.000452	0.00113	1	10/19/2018 22:31	WG1183157
Bromobenzene	U		0.00119	0.0141	1	10/19/2018 22:31	WG1183157
Bromodichloromethane	U		0.000891	0.00283	1	10/19/2018 22:31	WG1183157
Bromochloromethane	U		0.00128	0.00565	1	10/19/2018 22:31	WG1183157
Bromoform	U	JO	0.00676	0.0283	1	10/19/2018 22:31	WG1183157
Bromomethane	U		0.00418	0.0141	1	10/19/2018 22:31	WG1183157
n-Butylbenzene	U		0.00434	0.0141	1	10/19/2018 22:31	WG1183157
sec-Butylbenzene	U		0.00286	0.0141	1	10/19/2018 22:31	WG1183157
tert-Butylbenzene	U		0.00175	0.00565	1	10/19/2018 22:31	WG1183157
Carbon disulfide	U	JO	0.00459	0.0141	1	10/19/2018 22:31	WG1183157
Carbon tetrachloride	U		0.00122	0.00565	1	10/19/2018 22:31	WG1183157
Chlorobenzene	U		0.000648	0.00283	1	10/19/2018 22:31	WG1183157
Chlorodibromomethane	U		0.000509	0.00283	1	10/19/2018 22:31	WG1183157
Chloroethane	U		0.00122	0.00565	1	10/19/2018 22:31	WG1183157
Chloroform	0.000654	B J	0.000469	0.00283	1	10/19/2018 22:31	WG1183157
Chloromethane	U		0.00157	0.0141	1	10/19/2018 22:31	WG1183157
2-Chlorotoluene	U		0.00104	0.00283	1	10/19/2018 22:31	WG1183157
4-Chlorotoluene	U		0.00128	0.00565	1	10/19/2018 22:31	WG1183157
1,2-Dibromo-3-Chloropropane	U	JO	0.00577	0.0283	1	10/19/2018 22:31	WG1183157
1,2-Dibromoethane	U		0.000594	0.00283	1	10/19/2018 22:31	WG1183157
Dibromomethane	U		0.00113	0.00565	1	10/19/2018 22:31	WG1183157
1,2-Dichlorobenzene	U		0.00164	0.00565	1	10/19/2018 22:31	WG1183157
1,3-Dichlorobenzene	U		0.00192	0.00565	1	10/19/2018 22:31	WG1183157
1,4-Dichlorobenzene	U		0.00223	0.00565	1	10/19/2018 22:31	WG1183157
Dichlorodifluoromethane	U		0.000925	0.00283	1	10/19/2018 22:31	WG1183157
1,1-Dichloroethane	U		0.000650	0.00283	1	10/19/2018 22:31	WG1183157
1,2-Dichloroethane	U		0.000537	0.00283	1	10/19/2018 22:31	WG1183157
1,1-Dichloroethene	U		0.000565	0.00283	1	10/19/2018 22:31	WG1183157
cis-1,2-Dichloroethene	0.0366		0.000780	0.00283	1	10/19/2018 22:31	WG1183157
trans-1,2-Dichloroethene	U		0.00162	0.00565	1	10/19/2018 22:31	WG1183157
1,2-Dichloropropane	U		0.0574	0.226	40	10/22/2018 20:44	WG1184604
1,1-Dichloropropene	U		0.000791	0.00283	1	10/19/2018 22:31	WG1183157
1,3-Dichloropropane	U		0.00198	0.00565	1	10/19/2018 22:31	WG1183157
cis-1,3-Dichloropropene	U		0.000767	0.00283	1	10/19/2018 22:31	WG1183157
trans-1,3-Dichloropropene	U		0.00173	0.00565	1	10/19/2018 22:31	WG1183157
trans-1,4-Dichloro-2-butene	U		0.00158	0.00565	1	10/19/2018 22:31	WG1183157
2,2-Dichloropropane	U		0.000897	0.00283	1	10/19/2018 22:31	WG1183157
Di-isopropyl ether	U		0.000396	0.00113	1	10/19/2018 22:31	WG1183157
Ethylbenzene	U		0.000599	0.00283	1	10/19/2018 22:31	WG1183157
Hexachloro-1,3-butadiene	U	JO	0.0144	0.0283	1	10/19/2018 22:31	WG1183157
2-Hexanone	U		0.0113	0.0283	1	10/19/2018 22:31	WG1183157
n-Hexane	U		0.00120	0.00565	1	10/19/2018 22:31	WG1183157
Iodomethane	U		0.00684	0.0141	1	10/19/2018 22:31	WG1183157
Isopropylbenzene	U		0.000976	0.00283	1	10/19/2018 22:31	WG1183157
p-Isopropyltoluene	U		0.00263	0.00565	1	10/19/2018 22:31	WG1183157
2-Butanone (MEK)	U	JO	0.565	1.13	40	10/22/2018 20:44	WG1184604
Methylene Chloride	U		0.00751	0.0283	1	10/19/2018 22:31	WG1183157
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	10/19/2018 22:31	WG1183157





Collected date/time: 10/15/18 12:55

L1034970

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000334	0.00113	1	10/19/2018 22:31	WG1183157
Naphthalene	U		0.00353	0.0141	1	10/19/2018 22:31	WG1183157
n-Propylbenzene	U		0.00133	0.00565	1	10/19/2018 22:31	WG1183157
Styrene	U	JO	0.00309	0.0141	1	10/19/2018 22:31	WG1183157
1,1,1,2-Tetrachloroethane	U		0.000565	0.00283	1	10/19/2018 22:31	WG1183157
1,1,2,2-Tetrachloroethane	U		0.000441	0.00283	1	10/19/2018 22:31	WG1183157
1,1,2-Trichlorotrifluoroethane	U		0.000763	0.00283	1	10/19/2018 22:31	WG1183157
Tetrachloroethene	12.0		0.0317	0.113	40	10/22/2018 20:44	WG1184604
Toluene	U		0.00141	0.00565	1	10/19/2018 22:31	WG1183157
1,2,3-Trichlorobenzene	U		0.000707	0.00283	1	10/19/2018 22:31	WG1183157
1,2,4-Trichlorobenzene	U		0.00545	0.0141	1	10/19/2018 22:31	WG1183157
1,1,1-Trichloroethane	U		0.000311	0.00283	1	10/19/2018 22:31	WG1183157
1,1,2-Trichloroethane	U		0.0399	0.113	40	10/22/2018 20:44	WG1184604
Trichloroethene	0.102		0.000452	0.00113	1	10/19/2018 22:31	WG1183157
Trichlorofluoromethane	U		0.000565	0.00283	1	10/19/2018 22:31	WG1183157
1,2,3-Trichloropropane	U		0.00577	0.0141	1	10/19/2018 22:31	WG1183157
1,2,4-Trimethylbenzene	U		0.00131	0.00565	1	10/19/2018 22:31	WG1183157
1,2,3-Trimethylbenzene	U		0.00130	0.00565	1	10/19/2018 22:31	WG1183157
1,3,5-Trimethylbenzene	U		0.00122	0.00565	1	10/19/2018 22:31	WG1183157
Vinyl acetate	U		0.00398	0.0141	1	10/19/2018 22:31	WG1183157
Vinyl chloride	U		0.000772	0.00283	1	10/19/2018 22:31	WG1183157
Xylenes, Total	U		0.00540	0.00735	1	10/19/2018 22:31	WG1183157
(S) Toluene-d8	123			75.0-131		10/19/2018 22:31	WG1183157
(S) Toluene-d8	99.0			75.0-131		10/22/2018 20:44	WG1184604
(S) Dibromofluoromethane	95.3			65.0-129		10/19/2018 22:31	WG1183157
(S) Dibromofluoromethane	116			65.0-129		10/22/2018 20:44	WG1184604
(S) 4-Bromofluorobenzene	94.3			67.0-138		10/19/2018 22:31	WG1183157
(S) 4-Bromofluorobenzene	120			67.0-138		10/22/2018 20:44	WG1184604

Sample Narrative:

L1034970-15 WG1183157, WG1184604: Not all compounds reportable at lower dilution.

L1034970-15 WG1183157, WG1184604: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

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	85.4		1	10/19/2018 13:51	WG1183343

Volatile Organic Compounds (GC/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</u>	0.0160	0.0293	1	10/19/2018 22:52	WG1183157
Acrylonitrile	U		0.00222	0.0146	1	10/19/2018 22:52	WG1183157
Benzene	U		0.000468	0.00117	1	10/19/2018 22:52	WG1183157
Bromobenzene	U		0.00123	0.0146	1	10/19/2018 22:52	WG1183157
Bromodichloromethane	U		0.000923	0.00293	1	10/19/2018 22:52	WG1183157
Bromochloromethane	U		0.00132	0.00586	1	10/19/2018 22:52	WG1183157
Bromoform	U	<u>JO</u>	0.00700	0.0293	1	10/19/2018 22:52	WG1183157
Bromomethane	U		0.00433	0.0146	1	10/19/2018 22:52	WG1183157
n-Butylbenzene	U		0.00450	0.0146	1	10/19/2018 22:52	WG1183157
sec-Butylbenzene	U		0.00296	0.0146	1	10/19/2018 22:52	WG1183157
tert-Butylbenzene	U		0.00182	0.00586	1	10/19/2018 22:52	WG1183157
Carbon disulfide	U	<u>JO</u>	0.00475	0.0146	1	10/19/2018 22:52	WG1183157
Carbon tetrachloride	U		0.00126	0.00586	1	10/19/2018 22:52	WG1183157
Chlorobenzene	U		0.000671	0.00293	1	10/19/2018 22:52	WG1183157
Chlorodibromomethane	U		0.000527	0.00293	1	10/19/2018 22:52	WG1183157
Chloroethane	U		0.00126	0.00586	1	10/19/2018 22:52	WG1183157
Chloroform	0.000952	<u>B J</u>	0.000486	0.00293	1	10/19/2018 22:52	WG1183157
Chloromethane	U		0.00163	0.0146	1	10/19/2018 22:52	WG1183157
2-Chlorotoluene	U		0.00108	0.00293	1	10/19/2018 22:52	WG1183157
4-Chlorotoluene	U		0.00132	0.00586	1	10/19/2018 22:52	WG1183157
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.00597	0.0293	1	10/19/2018 22:52	WG1183157
1,2-Dibromoethane	U		0.000615	0.00293	1	10/19/2018 22:52	WG1183157
Dibromomethane	U		0.00117	0.00586	1	10/19/2018 22:52	WG1183157
1,2-Dichlorobenzene	U		0.00170	0.00586	1	10/19/2018 22:52	WG1183157
1,3-Dichlorobenzene	U		0.00199	0.00586	1	10/19/2018 22:52	WG1183157
1,4-Dichlorobenzene	U		0.00231	0.00586	1	10/19/2018 22:52	WG1183157
Dichlorodifluoromethane	U		0.000958	0.00293	1	10/19/2018 22:52	WG1183157
1,1-Dichloroethane	U		0.000673	0.00293	1	10/19/2018 22:52	WG1183157
1,2-Dichloroethane	U		0.000556	0.00293	1	10/19/2018 22:52	WG1183157
1,1-Dichloroethene	U		0.000586	0.00293	1	10/19/2018 22:52	WG1183157
cis-1,2-Dichloroethene	0.0474		0.000808	0.00293	1	10/19/2018 22:52	WG1183157
trans-1,2-Dichloroethene	U		0.00167	0.00586	1	10/19/2018 22:52	WG1183157
1,2-Dichloropropane	U		0.0595	0.234	40	10/22/2018 21:03	WG1184604
1,1-Dichloropropene	U		0.000820	0.00293	1	10/19/2018 22:52	WG1183157
1,3-Dichloropropane	U		0.00205	0.00586	1	10/19/2018 22:52	WG1183157
cis-1,3-Dichloropropene	U		0.000794	0.00293	1	10/19/2018 22:52	WG1183157
trans-1,3-Dichloropropene	U		0.00179	0.00586	1	10/19/2018 22:52	WG1183157
trans-1,4-Dichloro-2-butene	U		0.00164	0.00586	1	10/19/2018 22:52	WG1183157
2,2-Dichloropropane	U		0.000929	0.00293	1	10/19/2018 22:52	WG1183157
Di-isopropyl ether	U		0.000410	0.00117	1	10/19/2018 22:52	WG1183157
Ethylbenzene	U		0.000621	0.00293	1	10/19/2018 22:52	WG1183157
Hexachloro-1,3-butadiene	U	<u>JO</u>	0.0149	0.0293	1	10/19/2018 22:52	WG1183157
2-Hexanone	U		0.0117	0.0293	1	10/19/2018 22:52	WG1183157
n-Hexane	U		0.00124	0.00586	1	10/19/2018 22:52	WG1183157
Iodomethane	U		0.00708	0.0146	1	10/19/2018 22:52	WG1183157
Isopropylbenzene	U		0.00101	0.00293	1	10/19/2018 22:52	WG1183157
p-Isopropyltoluene	U		0.00273	0.00586	1	10/19/2018 22:52	WG1183157
2-Butanone (MEK)	U	<u>JO</u>	0.586	1.17	40	10/22/2018 21:03	WG1184604
Methylene Chloride	U		0.00778	0.0293	1	10/19/2018 22:52	WG1183157
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0293	1	10/19/2018 22:52	WG1183157





Collected date/time: 10/15/18 12:57

L1034970

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000345	0.00117	1	10/19/2018 22:52	WG1183157
Naphthalene	U		0.00365	0.0146	1	10/19/2018 22:52	WG1183157
n-Propylbenzene	U		0.00138	0.00586	1	10/19/2018 22:52	WG1183157
Styrene	U	JO	0.00320	0.0146	1	10/19/2018 22:52	WG1183157
1,1,1,2-Tetrachloroethane	U		0.000586	0.00293	1	10/19/2018 22:52	WG1183157
1,1,2,2-Tetrachloroethane	U		0.000457	0.00293	1	10/19/2018 22:52	WG1183157
1,1,2-Trichlorotrifluoroethane	U		0.000790	0.00293	1	10/19/2018 22:52	WG1183157
Tetrachloroethene	6.66		0.0328	0.117	40	10/22/2018 21:03	WG1184604
Toluene	U		0.00146	0.00586	1	10/19/2018 22:52	WG1183157
1,2,3-Trichlorobenzene	U		0.000732	0.00293	1	10/19/2018 22:52	WG1183157
1,2,4-Trichlorobenzene	U		0.00564	0.0146	1	10/19/2018 22:52	WG1183157
1,1,1-Trichloroethane	U		0.000322	0.00293	1	10/19/2018 22:52	WG1183157
1,1,2-Trichloroethane	U		0.0413	0.117	40	10/22/2018 21:03	WG1184604
Trichloroethene	0.154		0.000468	0.00117	1	10/19/2018 22:52	WG1183157
Trichlorofluoromethane	U		0.000586	0.00293	1	10/19/2018 22:52	WG1183157
1,2,3-Trichloropropane	U		0.00597	0.0146	1	10/19/2018 22:52	WG1183157
1,2,4-Trimethylbenzene	U		0.00136	0.00586	1	10/19/2018 22:52	WG1183157
1,2,3-Trimethylbenzene	U		0.00135	0.00586	1	10/19/2018 22:52	WG1183157
1,3,5-Trimethylbenzene	U		0.00126	0.00586	1	10/19/2018 22:52	WG1183157
Vinyl acetate	U		0.00412	0.0146	1	10/19/2018 22:52	WG1183157
Vinyl chloride	U		0.000800	0.00293	1	10/19/2018 22:52	WG1183157
Xylenes, Total	U		0.00560	0.00761	1	10/19/2018 22:52	WG1183157
(S) Toluene-d8	122			75.0-131		10/19/2018 22:52	WG1183157
(S) Toluene-d8	97.4			75.0-131		10/22/2018 21:03	WG1184604
(S) Dibromofluoromethane	94.6			65.0-129		10/19/2018 22:52	WG1183157
(S) Dibromofluoromethane	117			65.0-129		10/22/2018 21:03	WG1184604
(S) 4-Bromofluorobenzene	92.7			67.0-138		10/19/2018 22:52	WG1183157
(S) 4-Bromofluorobenzene	128			67.0-138		10/22/2018 21:03	WG1184604

Sample Narrative:

L1034970-16 WG1183157, WG1184604: Not all compounds reportable at lower dilution.

L1034970-16 WG1183157, WG1184604: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

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	87.1		1	10/16/2018 14:25	WG1181703

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		13.1	23.8	830	10/17/2018 13:52	WG1182096
Acrylonitrile	U		0.00218	0.0144	1	10/16/2018 19:40	WG1181654
Benzene	U		0.000459	0.00115	1	10/16/2018 19:40	WG1181654
Bromobenzene	U		0.00121	0.0144	1	10/16/2018 19:40	WG1181654
Bromodichloromethane	U		0.000905	0.00287	1	10/16/2018 19:40	WG1181654
Bromochloromethane	U		0.00130	0.00574	1	10/16/2018 19:40	WG1181654
Bromoform	U		0.00687	0.0287	1	10/16/2018 19:40	WG1181654
Bromomethane	U		0.00425	0.0144	1	10/16/2018 19:40	WG1181654
n-Butylbenzene	U		0.00441	0.0144	1	10/16/2018 19:40	WG1181654
sec-Butylbenzene	U		0.00291	0.0144	1	10/16/2018 19:40	WG1181654
tert-Butylbenzene	U		0.00178	0.00574	1	10/16/2018 19:40	WG1181654
Carbon disulfide	U		0.00466	0.0144	1	10/16/2018 19:40	WG1181654
Carbon tetrachloride	U		0.00124	0.00574	1	10/16/2018 19:40	WG1181654
Chlorobenzene	U		0.000658	0.00287	1	10/16/2018 19:40	WG1181654
Chlorodibromomethane	U		0.000517	0.00287	1	10/16/2018 19:40	WG1181654
Chloroethane	U		0.00124	0.00574	1	10/16/2018 19:40	WG1181654
Chloroform	0.000767	B J	0.000477	0.00287	1	10/16/2018 19:40	WG1181654
Chloromethane	U		0.00160	0.0144	1	10/16/2018 19:40	WG1181654
2-Chlorotoluene	U		0.00106	0.00287	1	10/16/2018 19:40	WG1181654
4-Chlorotoluene	U		0.00130	0.00574	1	10/16/2018 19:40	WG1181654
1,2-Dibromo-3-Chloropropane	U		0.00586	0.0287	1	10/16/2018 19:40	WG1181654
1,2-Dibromoethane	U		0.000603	0.00287	1	10/16/2018 19:40	WG1181654
Dibromomethane	U	J4	0.00115	0.00574	1	10/16/2018 19:40	WG1181654
1,2-Dichlorobenzene	U		0.00167	0.00574	1	10/16/2018 19:40	WG1181654
1,3-Dichlorobenzene	U		0.00195	0.00574	1	10/16/2018 19:40	WG1181654
1,4-Dichlorobenzene	U		0.00226	0.00574	1	10/16/2018 19:40	WG1181654
Dichlorodifluoromethane	U		0.000940	0.00287	1	10/16/2018 19:40	WG1181654
1,1-Dichloroethane	U		0.000660	0.00287	1	10/16/2018 19:40	WG1181654
1,2-Dichloroethane	U		0.000546	0.00287	1	10/16/2018 19:40	WG1181654
1,1-Dichloroethene	U		0.000574	0.00287	1	10/16/2018 19:40	WG1181654
cis-1,2-Dichloroethene	0.191		0.000793	0.00287	1	10/16/2018 19:40	WG1181654
trans-1,2-Dichloroethene	U		0.00164	0.00574	1	10/16/2018 19:40	WG1181654
1,2-Dichloropropane	U		0.00146	0.00574	1	10/16/2018 19:40	WG1181654
1,1-Dichloropropene	U		0.000804	0.00287	1	10/16/2018 19:40	WG1181654
1,3-Dichloropropane	U		0.00201	0.00574	1	10/16/2018 19:40	WG1181654
cis-1,3-Dichloropropene	U		0.000779	0.00287	1	10/16/2018 19:40	WG1181654
trans-1,3-Dichloropropene	U		0.00176	0.00574	1	10/16/2018 19:40	WG1181654
trans-1,4-Dichloro-2-butene	U		0.00161	0.00574	1	10/16/2018 19:40	WG1181654
2,2-Dichloropropane	U		0.000911	0.00287	1	10/16/2018 19:40	WG1181654
Di-isopropyl ether	U		0.000402	0.00115	1	10/16/2018 19:40	WG1181654
Ethylbenzene	U		0.000609	0.00287	1	10/16/2018 19:40	WG1181654
Hexachloro-1,3-butadiene	U		0.0146	0.0287	1	10/16/2018 19:40	WG1181654
2-Hexanone	U		0.0115	0.0287	1	10/16/2018 19:40	WG1181654
n-Hexane	0.00180	J	0.00122	0.00574	1	10/16/2018 19:40	WG1181654
Iodomethane	U		0.00695	0.0144	1	10/16/2018 19:40	WG1181654
Isopropylbenzene	U		0.000991	0.00287	1	10/16/2018 19:40	WG1181654
p-Isopropyltoluene	U		0.00268	0.00574	1	10/16/2018 19:40	WG1181654
2-Butanone (MEK)	U		0.0144	0.0287	1	10/16/2018 19:40	WG1181654
Methylene Chloride	U		0.00763	0.0287	1	10/16/2018 19:40	WG1181654
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0287	1	10/16/2018 19:40	WG1181654

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/15/18 13:20

L1034970

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U	<u>J0</u>	0.000339	0.00115	1	10/16/2018 19:40	WG1181654
Naphthalene	U		0.00358	0.0144	1	10/16/2018 19:40	WG1181654
n-Propylbenzene	U		0.00136	0.00574	1	10/16/2018 19:40	WG1181654
Styrene	U		0.00314	0.0144	1	10/16/2018 19:40	WG1181654
1,1,1,2-Tetrachloroethane	U		0.000574	0.00287	1	10/16/2018 19:40	WG1181654
1,1,2,2-Tetrachloroethane	U	<u>J4</u>	0.000448	0.00287	1	10/16/2018 19:40	WG1181654
1,1,2-Trichlorotrifluoroethane	U		0.000775	0.00287	1	10/16/2018 19:40	WG1181654
Tetrachloroethene	6.09		0.667	2.38	830	10/17/2018 13:52	WG1182096
Toluene	U		0.00144	0.00574	1	10/16/2018 19:40	WG1181654
1,2,3-Trichlorobenzene	U		0.000718	0.00287	1	10/16/2018 19:40	WG1181654
1,2,4-Trichlorobenzene	U		0.00554	0.0144	1	10/16/2018 19:40	WG1181654
1,1,1-Trichloroethane	U		0.000316	0.00287	1	10/16/2018 19:40	WG1181654
1,1,2-Trichloroethane	U	<u>J4</u>	0.00101	0.00287	1	10/16/2018 19:40	WG1181654
Trichloroethene	0.512		0.000459	0.00115	1	10/16/2018 19:40	WG1181654
Trichlorofluoromethane	U		0.000574	0.00287	1	10/16/2018 19:40	WG1181654
1,2,3-Trichloropropane	U		0.00586	0.0144	1	10/16/2018 19:40	WG1181654
1,2,4-Trimethylbenzene	U		0.00133	0.00574	1	10/16/2018 19:40	WG1181654
1,2,3-Trimethylbenzene	U		0.00132	0.00574	1	10/16/2018 19:40	WG1181654
1,3,5-Trimethylbenzene	U		0.00124	0.00574	1	10/16/2018 19:40	WG1181654
Vinyl acetate	U		0.00404	0.0144	1	10/16/2018 19:40	WG1181654
Vinyl chloride	U		0.000785	0.00287	1	10/16/2018 19:40	WG1181654
Xylenes, Total	U		0.00549	0.00747	1	10/16/2018 19:40	WG1181654
(S) Toluene-d8	119			75.0-131		10/16/2018 19:40	WG1181654
(S) Toluene-d8	99.1			75.0-131		10/17/2018 13:52	WG1182096
(S) Dibromofluoromethane	74.6			65.0-129		10/16/2018 19:40	WG1181654
(S) Dibromofluoromethane	120			65.0-129		10/17/2018 13:52	WG1182096
(S) 4-Bromofluorobenzene	98.7			67.0-138		10/16/2018 19:40	WG1181654
(S) 4-Bromofluorobenzene	118			67.0-138		10/17/2018 13:52	WG1182096

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.7		1	10/19/2018 13:51	WG1183343

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0143	0.0261	1	10/19/2018 23:12	WG1183157
Acrylonitrile	U		0.00199	0.0131	1	10/19/2018 23:12	WG1183157
Benzene	U		0.000418	0.00104	1	10/19/2018 23:12	WG1183157
Bromobenzene	U		0.00110	0.0131	1	10/19/2018 23:12	WG1183157
Bromodichloromethane	U		0.000823	0.00261	1	10/19/2018 23:12	WG1183157
Bromochloromethane	U		0.00118	0.00522	1	10/19/2018 23:12	WG1183157
Bromoform	U	JO	0.00625	0.0261	1	10/19/2018 23:12	WG1183157
Bromomethane	U		0.00387	0.0131	1	10/19/2018 23:12	WG1183157
n-Butylbenzene	U		0.00401	0.0131	1	10/19/2018 23:12	WG1183157
sec-Butylbenzene	U		0.00264	0.0131	1	10/19/2018 23:12	WG1183157
tert-Butylbenzene	U		0.00162	0.00522	1	10/19/2018 23:12	WG1183157
Carbon disulfide	U	JO	0.00424	0.0131	1	10/19/2018 23:12	WG1183157
Carbon tetrachloride	U		0.00113	0.00522	1	10/19/2018 23:12	WG1183157
Chlorobenzene	U		0.000599	0.00261	1	10/19/2018 23:12	WG1183157
Chlorodibromomethane	U		0.000470	0.00261	1	10/19/2018 23:12	WG1183157
Chloroethane	U		0.00113	0.00522	1	10/19/2018 23:12	WG1183157
Chloroform	0.000887	B J	0.000434	0.00261	1	10/19/2018 23:12	WG1183157
Chloromethane	U		0.00145	0.0131	1	10/19/2018 23:12	WG1183157
2-Chlorotoluene	U		0.000961	0.00261	1	10/19/2018 23:12	WG1183157
4-Chlorotoluene	U		0.00118	0.00522	1	10/19/2018 23:12	WG1183157
1,2-Dibromo-3-Chloropropane	U	JO	0.00533	0.0261	1	10/19/2018 23:12	WG1183157
1,2-Dibromoethane	U		0.000549	0.00261	1	10/19/2018 23:12	WG1183157
Dibromomethane	U		0.00104	0.00522	1	10/19/2018 23:12	WG1183157
1,2-Dichlorobenzene	U		0.00151	0.00522	1	10/19/2018 23:12	WG1183157
1,3-Dichlorobenzene	U		0.00178	0.00522	1	10/19/2018 23:12	WG1183157
1,4-Dichlorobenzene	U		0.00206	0.00522	1	10/19/2018 23:12	WG1183157
Dichlorodifluoromethane	U		0.000855	0.00261	1	10/19/2018 23:12	WG1183157
1,1-Dichloroethane	U		0.000601	0.00261	1	10/19/2018 23:12	WG1183157
1,2-Dichloroethane	U		0.000496	0.00261	1	10/19/2018 23:12	WG1183157
1,1-Dichloroethene	U		0.000522	0.00261	1	10/19/2018 23:12	WG1183157
cis-1,2-Dichloroethene	0.0146		0.000721	0.00261	1	10/19/2018 23:12	WG1183157
trans-1,2-Dichloroethene	U		0.00149	0.00522	1	10/19/2018 23:12	WG1183157
1,2-Dichloropropane	U		0.00133	0.00522	1	10/22/2018 16:44	WG1184604
1,1-Dichloropropene	U		0.000731	0.00261	1	10/19/2018 23:12	WG1183157
1,3-Dichloropropane	U		0.00183	0.00522	1	10/19/2018 23:12	WG1183157
cis-1,3-Dichloropropene	U		0.000708	0.00261	1	10/19/2018 23:12	WG1183157
trans-1,3-Dichloropropene	U		0.00160	0.00522	1	10/19/2018 23:12	WG1183157
trans-1,4-Dichloro-2-butene	U		0.00146	0.00522	1	10/19/2018 23:12	WG1183157
2,2-Dichloropropane	U		0.000829	0.00261	1	10/19/2018 23:12	WG1183157
Di-isopropyl ether	U		0.000366	0.00104	1	10/19/2018 23:12	WG1183157
Ethylbenzene	U		0.000554	0.00261	1	10/19/2018 23:12	WG1183157
Hexachloro-1,3-butadiene	U	JO	0.0133	0.0261	1	10/19/2018 23:12	WG1183157
2-Hexanone	U		0.0104	0.0261	1	10/19/2018 23:12	WG1183157
n-Hexane	0.00228	J	0.00111	0.00522	1	10/19/2018 23:12	WG1183157
Iodomethane	U		0.00632	0.0131	1	10/19/2018 23:12	WG1183157
Isopropylbenzene	U		0.000902	0.00261	1	10/19/2018 23:12	WG1183157
p-Isopropyltoluene	U		0.00243	0.00522	1	10/19/2018 23:12	WG1183157
2-Butanone (MEK)	0.0516	JO	0.0131	0.0261	1	10/22/2018 16:44	WG1184604
Methylene Chloride	0.00853	B J	0.00694	0.0261	1	10/19/2018 23:12	WG1183157
4-Methyl-2-pentanone (MIBK)	U		0.0104	0.0261	1	10/19/2018 23:12	WG1183157

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/15/18 14:15

L1034970

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000308	0.00104	1	10/19/2018 23:12	WG1183157
Naphthalene	U		0.00326	0.0131	1	10/19/2018 23:12	WG1183157
n-Propylbenzene	U		0.00123	0.00522	1	10/19/2018 23:12	WG1183157
Styrene	U	JO	0.00285	0.0131	1	10/19/2018 23:12	WG1183157
1,1,1,2-Tetrachloroethane	U		0.000522	0.00261	1	10/19/2018 23:12	WG1183157
1,1,2,2-Tetrachloroethane	U		0.000407	0.00261	1	10/19/2018 23:12	WG1183157
1,1,2-Trichlorotrifluoroethane	U		0.000705	0.00261	1	10/19/2018 23:12	WG1183157
Tetrachloroethene	0.306		0.000731	0.00261	1	10/19/2018 23:12	WG1183157
Toluene	U		0.00131	0.00522	1	10/19/2018 23:12	WG1183157
1,2,3-Trichlorobenzene	U		0.000653	0.00261	1	10/19/2018 23:12	WG1183157
1,2,4-Trichlorobenzene	U		0.00504	0.0131	1	10/19/2018 23:12	WG1183157
1,1,1-Trichloroethane	U		0.000287	0.00261	1	10/19/2018 23:12	WG1183157
1,1,2-Trichloroethane	U		0.000923	0.00261	1	10/22/2018 16:44	WG1184604
Trichloroethene	0.0201		0.000418	0.00104	1	10/19/2018 23:12	WG1183157
Trichlorofluoromethane	U		0.000522	0.00261	1	10/19/2018 23:12	WG1183157
1,2,3-Trichloropropane	U		0.00533	0.0131	1	10/19/2018 23:12	WG1183157
1,2,4-Trimethylbenzene	U		0.00121	0.00522	1	10/19/2018 23:12	WG1183157
1,2,3-Trimethylbenzene	U		0.00120	0.00522	1	10/19/2018 23:12	WG1183157
1,3,5-Trimethylbenzene	U		0.00113	0.00522	1	10/19/2018 23:12	WG1183157
Vinyl acetate	U		0.00368	0.0131	1	10/19/2018 23:12	WG1183157
Vinyl chloride	U		0.000714	0.00261	1	10/19/2018 23:12	WG1183157
Xylenes, Total	U		0.00499	0.00679	1	10/19/2018 23:12	WG1183157
(S) Toluene-d8	126			75.0-131		10/19/2018 23:12	WG1183157
(S) Toluene-d8	99.9			75.0-131		10/22/2018 16:44	WG1184604
(S) Dibromofluoromethane	93.5			65.0-129		10/19/2018 23:12	WG1183157
(S) Dibromofluoromethane	113			65.0-129		10/22/2018 16:44	WG1184604
(S) 4-Bromofluorobenzene	91.7			67.0-138		10/19/2018 23:12	WG1183157
(S) 4-Bromofluorobenzene	119			67.0-138		10/22/2018 16:44	WG1184604

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.2		1	10/22/2018 09:45	WG1183344

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0152	0.0277	1	10/19/2018 23:33	WG1183157
Acrylonitrile	U		0.00211	0.0139	1	10/19/2018 23:33	WG1183157
Benzene	U		0.000443	0.00111	1	10/19/2018 23:33	WG1183157
Bromobenzene	U		0.00116	0.0139	1	10/19/2018 23:33	WG1183157
Bromodichloromethane	U		0.000874	0.00277	1	10/19/2018 23:33	WG1183157
Bromochloromethane	U		0.00125	0.00554	1	10/19/2018 23:33	WG1183157
Bromoform	U	JO	0.00663	0.0277	1	10/19/2018 23:33	WG1183157
Bromomethane	U		0.00410	0.0139	1	10/19/2018 23:33	WG1183157
n-Butylbenzene	U		0.00426	0.0139	1	10/19/2018 23:33	WG1183157
sec-Butylbenzene	U		0.00281	0.0139	1	10/19/2018 23:33	WG1183157
tert-Butylbenzene	U		0.00172	0.00554	1	10/19/2018 23:33	WG1183157
Carbon disulfide	U	JO	0.00450	0.0139	1	10/19/2018 23:33	WG1183157
Carbon tetrachloride	U		0.00120	0.00554	1	10/19/2018 23:33	WG1183157
Chlorobenzene	U		0.000635	0.00277	1	10/19/2018 23:33	WG1183157
Chlorodibromomethane	U		0.000499	0.00277	1	10/19/2018 23:33	WG1183157
Chloroethane	U		0.00120	0.00554	1	10/19/2018 23:33	WG1183157
Chloroform	0.000808	B J	0.000460	0.00277	1	10/19/2018 23:33	WG1183157
Chloromethane	U		0.00154	0.0139	1	10/19/2018 23:33	WG1183157
2-Chlorotoluene	U		0.00102	0.00277	1	10/19/2018 23:33	WG1183157
4-Chlorotoluene	U		0.00125	0.00554	1	10/19/2018 23:33	WG1183157
1,2-Dibromo-3-Chloropropane	U	JO	0.00565	0.0277	1	10/19/2018 23:33	WG1183157
1,2-Dibromoethane	U		0.000582	0.00277	1	10/19/2018 23:33	WG1183157
Dibromomethane	U		0.00111	0.00554	1	10/19/2018 23:33	WG1183157
1,2-Dichlorobenzene	U		0.00161	0.00554	1	10/19/2018 23:33	WG1183157
1,3-Dichlorobenzene	U		0.00188	0.00554	1	10/19/2018 23:33	WG1183157
1,4-Dichlorobenzene	U		0.00218	0.00554	1	10/19/2018 23:33	WG1183157
Dichlorodifluoromethane	U		0.000907	0.00277	1	10/19/2018 23:33	WG1183157
1,1-Dichloroethane	U		0.000638	0.00277	1	10/19/2018 23:33	WG1183157
1,2-Dichloroethane	U		0.000527	0.00277	1	10/19/2018 23:33	WG1183157
1,1-Dichloroethene	U		0.000554	0.00277	1	10/19/2018 23:33	WG1183157
cis-1,2-Dichloroethene	0.0600		0.000765	0.00277	1	10/19/2018 23:33	WG1183157
trans-1,2-Dichloroethene	U		0.00159	0.00554	1	10/19/2018 23:33	WG1183157
1,2-Dichloropropane	U		0.00141	0.00554	1	10/22/2018 17:04	WG1184604
1,1-Dichloropropene	U		0.000776	0.00277	1	10/19/2018 23:33	WG1183157
1,3-Dichloropropane	U		0.00194	0.00554	1	10/19/2018 23:33	WG1183157
cis-1,3-Dichloropropene	U		0.000752	0.00277	1	10/19/2018 23:33	WG1183157
trans-1,3-Dichloropropene	U		0.00170	0.00554	1	10/19/2018 23:33	WG1183157
trans-1,4-Dichloro-2-butene	U		0.00155	0.00554	1	10/19/2018 23:33	WG1183157
2,2-Dichloropropane	U		0.000879	0.00277	1	10/19/2018 23:33	WG1183157
Di-isopropyl ether	U		0.000388	0.00111	1	10/19/2018 23:33	WG1183157
Ethylbenzene	U		0.000588	0.00277	1	10/19/2018 23:33	WG1183157
Hexachloro-1,3-butadiene	U	JO	0.0141	0.0277	1	10/19/2018 23:33	WG1183157
2-Hexanone	U		0.0111	0.0277	1	10/19/2018 23:33	WG1183157
n-Hexane	0.00177	J	0.00118	0.00554	1	10/19/2018 23:33	WG1183157
Iodomethane	U		0.00671	0.0139	1	10/19/2018 23:33	WG1183157
Isopropylbenzene	U		0.000957	0.00277	1	10/19/2018 23:33	WG1183157
p-Isopropyltoluene	U		0.00258	0.00554	1	10/19/2018 23:33	WG1183157
2-Butanone (MEK)	0.0333	JO	0.0139	0.0277	1	10/22/2018 17:04	WG1184604
Methylene Chloride	U		0.00736	0.0277	1	10/19/2018 23:33	WG1183157
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0277	1	10/19/2018 23:33	WG1183157

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/15/18 14:27

L1034970

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000327	0.0011	1	10/19/2018 23:33	WG1183157
Naphthalene	U		0.00346	0.0139	1	10/19/2018 23:33	WG1183157
n-Propylbenzene	U		0.00131	0.00554	1	10/19/2018 23:33	WG1183157
Styrene	U	JO	0.00303	0.0139	1	10/19/2018 23:33	WG1183157
1,1,1,2-Tetrachloroethane	U		0.000554	0.00277	1	10/19/2018 23:33	WG1183157
1,1,2,2-Tetrachloroethane	U		0.000432	0.00277	1	10/19/2018 23:33	WG1183157
1,1,2-Trichlorotrifluoroethane	U		0.000748	0.00277	1	10/19/2018 23:33	WG1183157
Tetrachloroethene	0.356		0.000776	0.00277	1	10/19/2018 23:33	WG1183157
Toluene	U		0.00139	0.00554	1	10/19/2018 23:33	WG1183157
1,2,3-Trichlorobenzene	U		0.000693	0.00277	1	10/19/2018 23:33	WG1183157
1,2,4-Trichlorobenzene	U		0.00534	0.0139	1	10/19/2018 23:33	WG1183157
1,1,1-Trichloroethane	U		0.000305	0.00277	1	10/19/2018 23:33	WG1183157
1,1,2-Trichloroethane	U		0.000979	0.00277	1	10/22/2018 17:04	WG1184604
Trichloroethene	0.0503		0.000443	0.0011	1	10/19/2018 23:33	WG1183157
Trichlorofluoromethane	U		0.000554	0.00277	1	10/19/2018 23:33	WG1183157
1,2,3-Trichloropropane	U		0.00565	0.0139	1	10/19/2018 23:33	WG1183157
1,2,4-Trimethylbenzene	U		0.00129	0.00554	1	10/19/2018 23:33	WG1183157
1,2,3-Trimethylbenzene	U		0.00128	0.00554	1	10/19/2018 23:33	WG1183157
1,3,5-Trimethylbenzene	U		0.00120	0.00554	1	10/19/2018 23:33	WG1183157
Vinyl acetate	U		0.00390	0.0139	1	10/19/2018 23:33	WG1183157
Vinyl chloride	U		0.000757	0.00277	1	10/19/2018 23:33	WG1183157
Xylenes, Total	U		0.00530	0.00721	1	10/19/2018 23:33	WG1183157
(S) Toluene-d8	125			75.0-131		10/19/2018 23:33	WG1183157
(S) Toluene-d8	99.4			75.0-131		10/22/2018 17:04	WG1184604
(S) Dibromofluoromethane	91.7			65.0-129		10/19/2018 23:33	WG1183157
(S) Dibromofluoromethane	113			65.0-129		10/22/2018 17:04	WG1184604
(S) 4-Bromofluorobenzene	96.8			67.0-138		10/19/2018 23:33	WG1183157
(S) 4-Bromofluorobenzene	120			67.0-138		10/22/2018 17:04	WG1184604

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.5		1	10/22/2018 09:45	WG1183344

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0147	0.0267	1	10/19/2018 23:54	WG1183157
Acrylonitrile	U		0.00203	0.0134	1	10/19/2018 23:54	WG1183157
Benzene	U		0.000428	0.00107	1	10/19/2018 23:54	WG1183157
Bromobenzene	U		0.00112	0.0134	1	10/19/2018 23:54	WG1183157
Bromodichloromethane	U		0.000843	0.00267	1	10/19/2018 23:54	WG1183157
Bromochloromethane	U		0.00121	0.00535	1	10/19/2018 23:54	WG1183157
Bromoform	U	JO	0.00640	0.0267	1	10/19/2018 23:54	WG1183157
Bromomethane	U		0.00396	0.0134	1	10/19/2018 23:54	WG1183157
n-Butylbenzene	U		0.00411	0.0134	1	10/19/2018 23:54	WG1183157
sec-Butylbenzene	U		0.00271	0.0134	1	10/19/2018 23:54	WG1183157
tert-Butylbenzene	U		0.00166	0.00535	1	10/19/2018 23:54	WG1183157
Carbon disulfide	U	JO	0.00434	0.0134	1	10/19/2018 23:54	WG1183157
Carbon tetrachloride	U		0.00116	0.00535	1	10/19/2018 23:54	WG1183157
Chlorobenzene	U		0.000613	0.00267	1	10/19/2018 23:54	WG1183157
Chlorodibromomethane	U		0.000481	0.00267	1	10/19/2018 23:54	WG1183157
Chloroethane	U		0.00116	0.00535	1	10/19/2018 23:54	WG1183157
Chloroform	U		0.000444	0.00267	1	10/19/2018 23:54	WG1183157
Chloromethane	U		0.00149	0.0134	1	10/19/2018 23:54	WG1183157
2-Chlorotoluene	U		0.000984	0.00267	1	10/19/2018 23:54	WG1183157
4-Chlorotoluene	U		0.00121	0.00535	1	10/19/2018 23:54	WG1183157
1,2-Dibromo-3-Chloropropane	U	JO	0.00546	0.0267	1	10/19/2018 23:54	WG1183157
1,2-Dibromoethane	U		0.000562	0.00267	1	10/19/2018 23:54	WG1183157
Dibromomethane	U		0.00107	0.00535	1	10/19/2018 23:54	WG1183157
1,2-Dichlorobenzene	U		0.00155	0.00535	1	10/19/2018 23:54	WG1183157
1,3-Dichlorobenzene	U		0.00182	0.00535	1	10/19/2018 23:54	WG1183157
1,4-Dichlorobenzene	U		0.00211	0.00535	1	10/19/2018 23:54	WG1183157
Dichlorodifluoromethane	U		0.000875	0.00267	1	10/19/2018 23:54	WG1183157
1,1-Dichloroethane	U		0.000615	0.00267	1	10/19/2018 23:54	WG1183157
1,2-Dichloroethane	U		0.000508	0.00267	1	10/19/2018 23:54	WG1183157
1,1-Dichloroethene	U		0.000535	0.00267	1	10/19/2018 23:54	WG1183157
cis-1,2-Dichloroethene	0.0312		0.000738	0.00267	1	10/19/2018 23:54	WG1183157
trans-1,2-Dichloroethene	U		0.00153	0.00535	1	10/19/2018 23:54	WG1183157
1,2-Dichloropropane	U		0.00136	0.00535	1	10/22/2018 17:24	WG1184604
1,1-Dichloropropene	U		0.000749	0.00267	1	10/19/2018 23:54	WG1183157
1,3-Dichloropropane	U		0.00187	0.00535	1	10/19/2018 23:54	WG1183157
cis-1,3-Dichloropropene	U		0.000725	0.00267	1	10/19/2018 23:54	WG1183157
trans-1,3-Dichloropropene	U		0.00164	0.00535	1	10/19/2018 23:54	WG1183157
trans-1,4-Dichloro-2-butene	U		0.00150	0.00535	1	10/19/2018 23:54	WG1183157
2,2-Dichloropropane	U		0.000848	0.00267	1	10/19/2018 23:54	WG1183157
Di-isopropyl ether	U		0.000374	0.00107	1	10/19/2018 23:54	WG1183157
Ethylbenzene	U		0.000567	0.00267	1	10/19/2018 23:54	WG1183157
Hexachloro-1,3-butadiene	U	JO	0.0136	0.0267	1	10/19/2018 23:54	WG1183157
2-Hexanone	U		0.0107	0.0267	1	10/19/2018 23:54	WG1183157
n-Hexane	U		0.00113	0.00535	1	10/19/2018 23:54	WG1183157
Iodomethane	U		0.00647	0.0134	1	10/19/2018 23:54	WG1183157
Isopropylbenzene	U		0.000923	0.00267	1	10/19/2018 23:54	WG1183157
p-Isopropyltoluene	U		0.00249	0.00535	1	10/19/2018 23:54	WG1183157
2-Butanone (MEK)	0.0507	JO	0.0134	0.0267	1	10/22/2018 17:24	WG1184604
Methylene Chloride	U		0.00710	0.0267	1	10/19/2018 23:54	WG1183157
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0267	1	10/19/2018 23:54	WG1183157

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/15/18 14:25

L1034970

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000316	0.00107	1	10/19/2018 23:54	WG1183157
Naphthalene	U		0.00334	0.0134	1	10/19/2018 23:54	WG1183157
n-Propylbenzene	U		0.00126	0.00535	1	10/19/2018 23:54	WG1183157
Styrene	U	JO	0.00292	0.0134	1	10/19/2018 23:54	WG1183157
1,1,1,2-Tetrachloroethane	U		0.000535	0.00267	1	10/19/2018 23:54	WG1183157
1,1,2,2-Tetrachloroethane	U		0.000417	0.00267	1	10/19/2018 23:54	WG1183157
1,1,2-Trichlorotrifluoroethane	U		0.000722	0.00267	1	10/19/2018 23:54	WG1183157
Tetrachloroethene	0.0783		0.000749	0.00267	1	10/19/2018 23:54	WG1183157
Toluene	U		0.00134	0.00535	1	10/19/2018 23:54	WG1183157
1,2,3-Trichlorobenzene	U		0.000669	0.00267	1	10/19/2018 23:54	WG1183157
1,2,4-Trichlorobenzene	U		0.00516	0.0134	1	10/19/2018 23:54	WG1183157
1,1,1-Trichloroethane	U		0.000294	0.00267	1	10/19/2018 23:54	WG1183157
1,1,2-Trichloroethane	U		0.000945	0.00267	1	10/22/2018 17:24	WG1184604
Trichloroethene	0.0156		0.000428	0.00107	1	10/19/2018 23:54	WG1183157
Trichlorofluoromethane	U		0.000535	0.00267	1	10/19/2018 23:54	WG1183157
1,2,3-Trichloropropane	U		0.00546	0.0134	1	10/19/2018 23:54	WG1183157
1,2,4-Trimethylbenzene	U		0.00124	0.00535	1	10/19/2018 23:54	WG1183157
1,2,3-Trimethylbenzene	U		0.00123	0.00535	1	10/19/2018 23:54	WG1183157
1,3,5-Trimethylbenzene	U		0.00116	0.00535	1	10/19/2018 23:54	WG1183157
Vinyl acetate	U		0.00377	0.0134	1	10/19/2018 23:54	WG1183157
Vinyl chloride	U		0.000731	0.00267	1	10/19/2018 23:54	WG1183157
Xylenes, Total	U		0.00511	0.00695	1	10/19/2018 23:54	WG1183157
(S) Toluene-d8	124			75.0-131		10/19/2018 23:54	WG1183157
(S) Toluene-d8	100			75.0-131		10/22/2018 17:24	WG1184604
(S) Dibromofluoromethane	91.8			65.0-129		10/19/2018 23:54	WG1183157
(S) Dibromofluoromethane	112			65.0-129		10/22/2018 17:24	WG1184604
(S) 4-Bromofluorobenzene	93.1			67.0-138		10/19/2018 23:54	WG1183157
(S) 4-Bromofluorobenzene	119			67.0-138		10/22/2018 17:24	WG1184604

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.9		1	10/22/2018 09:45	WG1183344

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0161	0.0295	1	10/20/2018 00:14	WG1183157
Acrylonitrile	U		0.00224	0.0147	1	10/20/2018 00:14	WG1183157
Benzene	U		0.000471	0.00118	1	10/20/2018 00:14	WG1183157
Bromobenzene	U		0.00124	0.0147	1	10/20/2018 00:14	WG1183157
Bromodichloromethane	U		0.000928	0.00295	1	10/20/2018 00:14	WG1183157
Bromochloromethane	U		0.00133	0.00589	1	10/20/2018 00:14	WG1183157
Bromoform	U	JO	0.00705	0.0295	1	10/20/2018 00:14	WG1183157
Bromomethane	U		0.00436	0.0147	1	10/20/2018 00:14	WG1183157
n-Butylbenzene	U		0.00452	0.0147	1	10/20/2018 00:14	WG1183157
sec-Butylbenzene	U		0.00298	0.0147	1	10/20/2018 00:14	WG1183157
tert-Butylbenzene	U		0.00183	0.00589	1	10/20/2018 00:14	WG1183157
Carbon disulfide	U	JO	0.00478	0.0147	1	10/20/2018 00:14	WG1183157
Carbon tetrachloride	U		0.00127	0.00589	1	10/20/2018 00:14	WG1183157
Chlorobenzene	U		0.000675	0.00295	1	10/20/2018 00:14	WG1183157
Chlorodibromomethane	U		0.000530	0.00295	1	10/20/2018 00:14	WG1183157
Chloroethane	U		0.00127	0.00589	1	10/20/2018 00:14	WG1183157
Chloroform	0.00130	B J	0.000489	0.00295	1	10/20/2018 00:14	WG1183157
Chloromethane	U		0.00164	0.0147	1	10/20/2018 00:14	WG1183157
2-Chlorotoluene	U		0.00108	0.00295	1	10/20/2018 00:14	WG1183157
4-Chlorotoluene	U		0.00133	0.00589	1	10/20/2018 00:14	WG1183157
1,2-Dibromo-3-Chloropropane	U	JO	0.00601	0.0295	1	10/20/2018 00:14	WG1183157
1,2-Dibromoethane	U		0.000619	0.00295	1	10/20/2018 00:14	WG1183157
Dibromomethane	U		0.00118	0.00589	1	10/20/2018 00:14	WG1183157
1,2-Dichlorobenzene	U		0.00171	0.00589	1	10/20/2018 00:14	WG1183157
1,3-Dichlorobenzene	U		0.00200	0.00589	1	10/20/2018 00:14	WG1183157
1,4-Dichlorobenzene	U		0.00232	0.00589	1	10/20/2018 00:14	WG1183157
Dichlorodifluoromethane	U		0.000964	0.00295	1	10/20/2018 00:14	WG1183157
1,1-Dichloroethane	U		0.000677	0.00295	1	10/20/2018 00:14	WG1183157
1,2-Dichloroethane	U		0.000560	0.00295	1	10/20/2018 00:14	WG1183157
1,1-Dichloroethene	U		0.000589	0.00295	1	10/20/2018 00:14	WG1183157
cis-1,2-Dichloroethene	0.340		0.000813	0.00295	1	10/20/2018 00:14	WG1183157
trans-1,2-Dichloroethene	U		0.00168	0.00589	1	10/20/2018 00:14	WG1183157
1,2-Dichloropropane	U		0.0299	0.118	20	10/22/2018 21:23	WG1184604
1,1-Dichloropropene	U		0.000825	0.00295	1	10/20/2018 00:14	WG1183157
1,3-Dichloropropane	U		0.00206	0.00589	1	10/20/2018 00:14	WG1183157
cis-1,3-Dichloropropene	U		0.000799	0.00295	1	10/20/2018 00:14	WG1183157
trans-1,3-Dichloropropene	U		0.00180	0.00589	1	10/20/2018 00:14	WG1183157
trans-1,4-Dichloro-2-butene	U		0.00165	0.00589	1	10/20/2018 00:14	WG1183157
2,2-Dichloropropane	U		0.000934	0.00295	1	10/20/2018 00:14	WG1183157
Di-isopropyl ether	U		0.000412	0.00118	1	10/20/2018 00:14	WG1183157
Ethylbenzene	U		0.000624	0.00295	1	10/20/2018 00:14	WG1183157
Hexachloro-1,3-butadiene	U	JO	0.0150	0.0295	1	10/20/2018 00:14	WG1183157
2-Hexanone	U		0.0118	0.0295	1	10/20/2018 00:14	WG1183157
n-Hexane	U		0.00125	0.00589	1	10/20/2018 00:14	WG1183157
Iodomethane	U		0.00713	0.0147	1	10/20/2018 00:14	WG1183157
Isopropylbenzene	U		0.00102	0.00295	1	10/20/2018 00:14	WG1183157
p-Isopropyltoluene	U		0.00275	0.00589	1	10/20/2018 00:14	WG1183157
2-Butanone (MEK)	U	JO	0.295	0.589	20	10/22/2018 21:23	WG1184604
Methylene Chloride	U		0.00782	0.0295	1	10/20/2018 00:14	WG1183157
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0295	1	10/20/2018 00:14	WG1183157

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/15/18 14:35

L1034970

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000348	0.00118	1	10/20/2018 00:14	WG1183157
Naphthalene	U		0.00368	0.0147	1	10/20/2018 00:14	WG1183157
n-Propylbenzene	U		0.00139	0.00589	1	10/20/2018 00:14	WG1183157
Styrene	U	JO	0.00322	0.0147	1	10/20/2018 00:14	WG1183157
1,1,1,2-Tetrachloroethane	U		0.000589	0.00295	1	10/20/2018 00:14	WG1183157
1,1,2,2-Tetrachloroethane	U		0.000460	0.00295	1	10/20/2018 00:14	WG1183157
1,1,2-Trichlorotrifluoroethane	U		0.000795	0.00295	1	10/20/2018 00:14	WG1183157
Tetrachloroethene	3.43		0.0165	0.0589	20	10/22/2018 21:23	WG1184604
Toluene	U		0.00147	0.00589	1	10/20/2018 00:14	WG1183157
1,2,3-Trichlorobenzene	U		0.000736	0.00295	1	10/20/2018 00:14	WG1183157
1,2,4-Trichlorobenzene	U		0.00568	0.0147	1	10/20/2018 00:14	WG1183157
1,1,1-Trichloroethane	U		0.000324	0.00295	1	10/20/2018 00:14	WG1183157
1,1,2-Trichloroethane	U		0.0209	0.0589	20	10/22/2018 21:23	WG1184604
Trichloroethene	0.682		0.000471	0.00118	1	10/20/2018 00:14	WG1183157
Trichlorofluoromethane	U		0.000589	0.00295	1	10/20/2018 00:14	WG1183157
1,2,3-Trichloropropane	U		0.00601	0.0147	1	10/20/2018 00:14	WG1183157
1,2,4-Trimethylbenzene	U		0.00137	0.00589	1	10/20/2018 00:14	WG1183157
1,2,3-Trimethylbenzene	U		0.00135	0.00589	1	10/20/2018 00:14	WG1183157
1,3,5-Trimethylbenzene	U		0.00127	0.00589	1	10/20/2018 00:14	WG1183157
Vinyl acetate	U		0.00415	0.0147	1	10/20/2018 00:14	WG1183157
Vinyl chloride	U		0.000805	0.00295	1	10/20/2018 00:14	WG1183157
Xylenes, Total	U		0.00563	0.00766	1	10/20/2018 00:14	WG1183157
(S) Toluene-d8	126			75.0-131		10/20/2018 00:14	WG1183157
(S) Toluene-d8	99.6			75.0-131		10/22/2018 21:23	WG1184604
(S) Dibromofluoromethane	91.6			65.0-129		10/20/2018 00:14	WG1183157
(S) Dibromofluoromethane	117			65.0-129		10/22/2018 21:23	WG1184604
(S) 4-Bromofluorobenzene	98.7			67.0-138		10/20/2018 00:14	WG1183157
(S) 4-Bromofluorobenzene	121			67.0-138		10/22/2018 21:23	WG1184604

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

Sample Narrative:

L1034970-21 WG1183157, WG1184604: Not all compounds reportable at lower dilution.

L1034970-21 WG1183157, WG1184604: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.9		1	10/22/2018 09:45	WG1183344

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0165	0.0302	1	10/20/2018 00:35	WG1183157
Acrylonitrile	U		0.00229	0.0151	1	10/20/2018 00:35	WG1183157
Benzene	U		0.000483	0.00121	1	10/20/2018 00:35	WG1183157
Bromobenzene	U		0.00127	0.0151	1	10/20/2018 00:35	WG1183157
Bromodichloromethane	U		0.000951	0.00302	1	10/20/2018 00:35	WG1183157
Bromochloromethane	U		0.00136	0.00603	1	10/20/2018 00:35	WG1183157
Bromoform	U	JO	0.00722	0.0302	1	10/20/2018 00:35	WG1183157
Bromomethane	U		0.00447	0.0151	1	10/20/2018 00:35	WG1183157
n-Butylbenzene	U		0.00463	0.0151	1	10/20/2018 00:35	WG1183157
sec-Butylbenzene	U		0.00305	0.0151	1	10/20/2018 00:35	WG1183157
tert-Butylbenzene	U		0.00187	0.00603	1	10/20/2018 00:35	WG1183157
Carbon disulfide	U	JO	0.00490	0.0151	1	10/20/2018 00:35	WG1183157
Carbon tetrachloride	U		0.00130	0.00603	1	10/20/2018 00:35	WG1183157
Chlorobenzene	U		0.000692	0.00302	1	10/20/2018 00:35	WG1183157
Chlorodibromomethane	U		0.000543	0.00302	1	10/20/2018 00:35	WG1183157
Chloroethane	U		0.00130	0.00603	1	10/20/2018 00:35	WG1183157
Chloroform	U		0.000501	0.00302	1	10/20/2018 00:35	WG1183157
Chloromethane	U		0.00168	0.0151	1	10/20/2018 00:35	WG1183157
2-Chlorotoluene	U		0.00111	0.00302	1	10/20/2018 00:35	WG1183157
4-Chlorotoluene	U		0.00136	0.00603	1	10/20/2018 00:35	WG1183157
1,2-Dibromo-3-Chloropropane	U	JO	0.00616	0.0302	1	10/20/2018 00:35	WG1183157
1,2-Dibromoethane	U		0.000634	0.00302	1	10/20/2018 00:35	WG1183157
Dibromomethane	U		0.00121	0.00603	1	10/20/2018 00:35	WG1183157
1,2-Dichlorobenzene	U		0.00175	0.00603	1	10/20/2018 00:35	WG1183157
1,3-Dichlorobenzene	U		0.00205	0.00603	1	10/20/2018 00:35	WG1183157
1,4-Dichlorobenzene	U		0.00238	0.00603	1	10/20/2018 00:35	WG1183157
Dichlorodifluoromethane	U		0.000987	0.00302	1	10/20/2018 00:35	WG1183157
1,1-Dichloroethane	U		0.000694	0.00302	1	10/20/2018 00:35	WG1183157
1,2-Dichloroethane	U		0.000573	0.00302	1	10/20/2018 00:35	WG1183157
1,1-Dichloroethene	0.00476		0.000603	0.00302	1	10/20/2018 00:35	WG1183157
cis-1,2-Dichloroethene	1.36		0.00833	0.0302	10	10/22/2018 21:43	WG1184604
trans-1,2-Dichloroethene	0.00231	J	0.00173	0.00603	1	10/20/2018 00:35	WG1183157
1,2-Dichloropropane	U		0.0153	0.0603	10	10/22/2018 21:43	WG1184604
1,1-Dichloropropene	U		0.000845	0.00302	1	10/20/2018 00:35	WG1183157
1,3-Dichloropropane	U		0.00211	0.00603	1	10/20/2018 00:35	WG1183157
cis-1,3-Dichloropropene	U		0.000818	0.00302	1	10/20/2018 00:35	WG1183157
trans-1,3-Dichloropropene	U		0.00185	0.00603	1	10/20/2018 00:35	WG1183157
trans-1,4-Dichloro-2-butene	U		0.00169	0.00603	1	10/20/2018 00:35	WG1183157
2,2-Dichloropropane	U		0.000957	0.00302	1	10/20/2018 00:35	WG1183157
Di-isopropyl ether	U		0.000422	0.00121	1	10/20/2018 00:35	WG1183157
Ethylbenzene	U		0.000640	0.00302	1	10/20/2018 00:35	WG1183157
Hexachloro-1,3-butadiene	U	JO	0.0153	0.0302	1	10/20/2018 00:35	WG1183157
2-Hexanone	U		0.0121	0.0302	1	10/20/2018 00:35	WG1183157
n-Hexane	U		0.00128	0.00603	1	10/20/2018 00:35	WG1183157
Iodomethane	U		0.00730	0.0151	1	10/20/2018 00:35	WG1183157
Isopropylbenzene	U		0.00104	0.00302	1	10/20/2018 00:35	WG1183157
p-Isopropyltoluene	U		0.00281	0.00603	1	10/20/2018 00:35	WG1183157
2-Butanone (MEK)	U	JO	0.151	0.302	10	10/22/2018 21:43	WG1184604
Methylene Chloride	U		0.00801	0.0302	1	10/20/2018 00:35	WG1183157
4-Methyl-2-pentanone (MIBK)	U		0.0121	0.0302	1	10/20/2018 00:35	WG1183157

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/15/18 14:43

L1034970

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000356	0.00121	1	10/20/2018 00:35	WG1183157
Naphthalene	U		0.00377	0.0151	1	10/20/2018 00:35	WG1183157
n-Propylbenzene	U		0.00142	0.00603	1	10/20/2018 00:35	WG1183157
Styrene	U	J0	0.00330	0.0151	1	10/20/2018 00:35	WG1183157
1,1,1,2-Tetrachloroethane	U		0.000603	0.00302	1	10/20/2018 00:35	WG1183157
1,1,2,2-Tetrachloroethane	U		0.000471	0.00302	1	10/20/2018 00:35	WG1183157
1,1,2-Trichlorotrifluoroethane	U		0.000815	0.00302	1	10/20/2018 00:35	WG1183157
Tetrachloroethene	2.88		0.00845	0.0302	10	10/22/2018 21:43	WG1184604
Toluene	U		0.00151	0.00603	1	10/20/2018 00:35	WG1183157
1,2,3-Trichlorobenzene	U		0.000754	0.00302	1	10/20/2018 00:35	WG1183157
1,2,4-Trichlorobenzene	U		0.00582	0.0151	1	10/20/2018 00:35	WG1183157
1,1,1-Trichloroethane	U		0.000332	0.00302	1	10/20/2018 00:35	WG1183157
1,1,2-Trichloroethane	U		0.0107	0.0302	10	10/22/2018 21:43	WG1184604
Trichlorofluoromethane	U		0.000603	0.00302	1	10/20/2018 00:35	WG1183157
1,2,3-Trichloropropane	U		0.00616	0.0151	1	10/20/2018 00:35	WG1183157
1,2,4-Trimethylbenzene	U		0.00140	0.00603	1	10/20/2018 00:35	WG1183157
1,2,3-Trimethylbenzene	U		0.00139	0.00603	1	10/20/2018 00:35	WG1183157
1,3,5-Trimethylbenzene	U		0.00130	0.00603	1	10/20/2018 00:35	WG1183157
Vinyl acetate	U		0.00425	0.0151	1	10/20/2018 00:35	WG1183157
Vinyl chloride	0.138		0.000824	0.00302	1	10/20/2018 00:35	WG1183157
Xylenes, Total	U		0.00577	0.00785	1	10/20/2018 00:35	WG1183157
(S) Toluene-d8	138	J1		75.0-131		10/20/2018 00:35	WG1183157
(S) Toluene-d8	99.2			75.0-131		10/22/2018 21:43	WG1184604
(S) Dibromofluoromethane	86.8			65.0-129		10/20/2018 00:35	WG1183157
(S) Dibromofluoromethane	117			65.0-129		10/22/2018 21:43	WG1184604
(S) 4-Bromofluorobenzene	77.7			67.0-138		10/20/2018 00:35	WG1183157
(S) 4-Bromofluorobenzene	122			67.0-138		10/22/2018 21:43	WG1184604

Sample Narrative:

L1034970-22 WG1183157, WG1184604: Not all compounds reportable at lower dilution.

L1034970-22 WG1183157, WG1184604: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

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	91.0		1	10/22/2018 09:45	WG1183344

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0150	0.0275	1	10/20/2018 00:55	WG1183157
Acrylonitrile	U		0.00209	0.0137	1	10/20/2018 00:55	WG1183157
Benzene	U		0.000439	0.00110	1	10/20/2018 00:55	WG1183157
Bromobenzene	U		0.00115	0.0137	1	10/20/2018 00:55	WG1183157
Bromodichloromethane	U		0.000866	0.00275	1	10/20/2018 00:55	WG1183157
Bromochloromethane	U		0.00124	0.00549	1	10/20/2018 00:55	WG1183157
Bromoform	U	JO	0.00657	0.0275	1	10/20/2018 00:55	WG1183157
Bromomethane	U		0.00406	0.0137	1	10/20/2018 00:55	WG1183157
n-Butylbenzene	U		0.00422	0.0137	1	10/20/2018 00:55	WG1183157
sec-Butylbenzene	U		0.00278	0.0137	1	10/20/2018 00:55	WG1183157
tert-Butylbenzene	U		0.00170	0.00549	1	10/20/2018 00:55	WG1183157
Carbon disulfide	U	JO	0.00446	0.0137	1	10/20/2018 00:55	WG1183157
Carbon tetrachloride	U		0.00119	0.00549	1	10/20/2018 00:55	WG1183157
Chlorobenzene	U		0.000629	0.00275	1	10/20/2018 00:55	WG1183157
Chlorodibromomethane	U		0.000494	0.00275	1	10/20/2018 00:55	WG1183157
Chloroethane	U		0.00119	0.00549	1	10/20/2018 00:55	WG1183157
Chloroform	U		0.000456	0.00275	1	10/20/2018 00:55	WG1183157
Chloromethane	U		0.00153	0.0137	1	10/20/2018 00:55	WG1183157
2-Chlorotoluene	U		0.00101	0.00275	1	10/20/2018 00:55	WG1183157
4-Chlorotoluene	U		0.00124	0.00549	1	10/20/2018 00:55	WG1183157
1,2-Dibromo-3-Chloropropane	U	JO	0.00560	0.0275	1	10/20/2018 00:55	WG1183157
1,2-Dibromoethane	U		0.000577	0.00275	1	10/20/2018 00:55	WG1183157
Dibromomethane	U		0.00110	0.00549	1	10/20/2018 00:55	WG1183157
1,2-Dichlorobenzene	U		0.00159	0.00549	1	10/20/2018 00:55	WG1183157
1,3-Dichlorobenzene	U		0.00187	0.00549	1	10/20/2018 00:55	WG1183157
1,4-Dichlorobenzene	U		0.00216	0.00549	1	10/20/2018 00:55	WG1183157
Dichlorodifluoromethane	U		0.000898	0.00275	1	10/20/2018 00:55	WG1183157
1,1-Dichloroethane	U		0.000632	0.00275	1	10/20/2018 00:55	WG1183157
1,2-Dichloroethane	U		0.000522	0.00275	1	10/20/2018 00:55	WG1183157
1,1-Dichloroethene	U		0.000549	0.00275	1	10/20/2018 00:55	WG1183157
cis-1,2-Dichloroethene	0.207		0.000758	0.00275	1	10/20/2018 00:55	WG1183157
trans-1,2-Dichloroethene	U		0.00157	0.00549	1	10/20/2018 00:55	WG1183157
1,2-Dichloropropane	U		0.00558	0.0220	4	10/22/2018 22:03	WG1184604
1,1-Dichloropropene	U		0.000769	0.00275	1	10/20/2018 00:55	WG1183157
1,3-Dichloropropane	U		0.00192	0.00549	1	10/20/2018 00:55	WG1183157
cis-1,3-Dichloropropene	U		0.000745	0.00275	1	10/20/2018 00:55	WG1183157
trans-1,3-Dichloropropene	U		0.00168	0.00549	1	10/20/2018 00:55	WG1183157
trans-1,4-Dichloro-2-butene	U		0.00154	0.00549	1	10/20/2018 00:55	WG1183157
2,2-Dichloropropane	U		0.000871	0.00275	1	10/20/2018 00:55	WG1183157
Di-isopropyl ether	U		0.000384	0.00110	1	10/20/2018 00:55	WG1183157
Ethylbenzene	U		0.000582	0.00275	1	10/20/2018 00:55	WG1183157
Hexachloro-1,3-butadiene	U	JO	0.0139	0.0275	1	10/20/2018 00:55	WG1183157
2-Hexanone	U		0.0110	0.0275	1	10/20/2018 00:55	WG1183157
n-Hexane	U		0.00116	0.00549	1	10/20/2018 00:55	WG1183157
Iodomethane	U		0.00665	0.0137	1	10/20/2018 00:55	WG1183157
Isopropylbenzene	U		0.000948	0.00275	1	10/20/2018 00:55	WG1183157
p-Isopropyltoluene	U		0.00256	0.00549	1	10/20/2018 00:55	WG1183157
2-Butanone (MEK)	U	JO	0.0549	0.110	4	10/22/2018 22:03	WG1184604
Methylene Chloride	U		0.00729	0.0275	1	10/20/2018 00:55	WG1183157
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0275	1	10/20/2018 00:55	WG1183157

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/15/18 14:50

L1034970

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000324	0.00110	1	10/20/2018 00:55	WG1183157
Naphthalene	U		0.00343	0.0137	1	10/20/2018 00:55	WG1183157
n-Propylbenzene	U		0.00130	0.00549	1	10/20/2018 00:55	WG1183157
Styrene	U	JO	0.00300	0.0137	1	10/20/2018 00:55	WG1183157
1,1,1,2-Tetrachloroethane	U		0.000549	0.00275	1	10/20/2018 00:55	WG1183157
1,1,2,2-Tetrachloroethane	U		0.000428	0.00275	1	10/20/2018 00:55	WG1183157
1,1,2-Trichlorotrifluoroethane	U		0.000741	0.00275	1	10/20/2018 00:55	WG1183157
Tetrachloroethene	1.35		0.00308	0.0110	4	10/22/2018 22:03	WG1184604
Toluene	U		0.00137	0.00549	1	10/20/2018 00:55	WG1183157
1,2,3-Trichlorobenzene	U		0.000686	0.00275	1	10/20/2018 00:55	WG1183157
1,2,4-Trichlorobenzene	U		0.00529	0.0137	1	10/20/2018 00:55	WG1183157
1,1,1-Trichloroethane	U		0.000302	0.00275	1	10/20/2018 00:55	WG1183157
1,1,2-Trichloroethane	U		0.00388	0.0110	4	10/22/2018 22:03	WG1184604
Trichloroethene	0.266		0.000439	0.00110	1	10/20/2018 00:55	WG1183157
Trichlorofluoromethane	U		0.000549	0.00275	1	10/20/2018 00:55	WG1183157
1,2,3-Trichloropropane	U		0.00560	0.0137	1	10/20/2018 00:55	WG1183157
1,2,4-Trimethylbenzene	U		0.00127	0.00549	1	10/20/2018 00:55	WG1183157
1,2,3-Trimethylbenzene	U		0.00126	0.00549	1	10/20/2018 00:55	WG1183157
1,3,5-Trimethylbenzene	U		0.00119	0.00549	1	10/20/2018 00:55	WG1183157
Vinyl acetate	U		0.00387	0.0137	1	10/20/2018 00:55	WG1183157
Vinyl chloride	0.00602		0.000750	0.00275	1	10/20/2018 00:55	WG1183157
Xylenes, Total	U		0.00525	0.00714	1	10/20/2018 00:55	WG1183157
(S) Toluene-d8	122			75.0-131		10/20/2018 00:55	WG1183157
(S) Toluene-d8	98.9			75.0-131		10/22/2018 22:03	WG1184604
(S) Dibromofluoromethane	91.6			65.0-129		10/20/2018 00:55	WG1183157
(S) Dibromofluoromethane	117			65.0-129		10/22/2018 22:03	WG1184604
(S) 4-Bromofluorobenzene	93.0			67.0-138		10/20/2018 00:55	WG1183157
(S) 4-Bromofluorobenzene	119			67.0-138		10/22/2018 22:03	WG1184604

Sample Narrative:

L1034970-23 WG1183157, WG1184604: Not all compounds reportable at lower dilution.

L1034970-23 WG1183157, WG1184604: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

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	87.4		1	10/16/2018 14:25	WG1181703

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		2.75	5.01	175	10/17/2018 12:52	WG1182096
Acrylonitrile	U		0.00217	0.0143	1	10/16/2018 20:00	WG1181654
Benzene	U		0.000458	0.00114	1	10/16/2018 20:00	WG1181654
Bromobenzene	U		0.00120	0.0143	1	10/16/2018 20:00	WG1181654
Bromodichloromethane	U		0.000902	0.00286	1	10/16/2018 20:00	WG1181654
Bromochloromethane	U		0.00129	0.00572	1	10/16/2018 20:00	WG1181654
Bromoform	U		0.00684	0.0286	1	10/16/2018 20:00	WG1181654
Bromomethane	U		0.00423	0.0143	1	10/16/2018 20:00	WG1181654
n-Butylbenzene	U		0.00439	0.0143	1	10/16/2018 20:00	WG1181654
sec-Butylbenzene	U		0.00290	0.0143	1	10/16/2018 20:00	WG1181654
tert-Butylbenzene	U		0.00177	0.00572	1	10/16/2018 20:00	WG1181654
Carbon disulfide	U		0.00465	0.0143	1	10/16/2018 20:00	WG1181654
Carbon tetrachloride	U		0.00124	0.00572	1	10/16/2018 20:00	WG1181654
Chlorobenzene	U		0.000656	0.00286	1	10/16/2018 20:00	WG1181654
Chlorodibromomethane	U		0.000515	0.00286	1	10/16/2018 20:00	WG1181654
Chloroethane	U		0.00124	0.00572	1	10/16/2018 20:00	WG1181654
Chloroform	U		0.000475	0.00286	1	10/16/2018 20:00	WG1181654
Chloromethane	U		0.00159	0.0143	1	10/16/2018 20:00	WG1181654
2-Chlorotoluene	U		0.00105	0.00286	1	10/16/2018 20:00	WG1181654
4-Chlorotoluene	U		0.00129	0.00572	1	10/16/2018 20:00	WG1181654
1,2-Dibromo-3-Chloropropane	U		0.00584	0.0286	1	10/16/2018 20:00	WG1181654
1,2-Dibromoethane	U		0.000601	0.00286	1	10/16/2018 20:00	WG1181654
Dibromomethane	U	J4	0.00114	0.00572	1	10/16/2018 20:00	WG1181654
1,2-Dichlorobenzene	U		0.00166	0.00572	1	10/16/2018 20:00	WG1181654
1,3-Dichlorobenzene	U		0.00195	0.00572	1	10/16/2018 20:00	WG1181654
1,4-Dichlorobenzene	U		0.00225	0.00572	1	10/16/2018 20:00	WG1181654
Dichlorodifluoromethane	U		0.000936	0.00286	1	10/16/2018 20:00	WG1181654
1,1-Dichloroethane	U		0.000658	0.00286	1	10/16/2018 20:00	WG1181654
1,2-Dichloroethane	U		0.000544	0.00286	1	10/16/2018 20:00	WG1181654
1,1-Dichloroethene	0.00436		0.000572	0.00286	1	10/16/2018 20:00	WG1181654
cis-1,2-Dichloroethene	0.484		0.000790	0.00286	1	10/16/2018 20:00	WG1181654
trans-1,2-Dichloroethene	0.00656		0.00164	0.00572	1	10/16/2018 20:00	WG1181654
1,2-Dichloropropane	U		0.00145	0.00572	1	10/16/2018 20:00	WG1181654
1,1-Dichloropropene	U		0.000801	0.00286	1	10/16/2018 20:00	WG1181654
1,3-Dichloropropane	U		0.00200	0.00572	1	10/16/2018 20:00	WG1181654
cis-1,3-Dichloropropene	U		0.000776	0.00286	1	10/16/2018 20:00	WG1181654
trans-1,3-Dichloropropene	U		0.00175	0.00572	1	10/16/2018 20:00	WG1181654
trans-1,4-Dichloro-2-butene	U		0.00160	0.00572	1	10/16/2018 20:00	WG1181654
2,2-Dichloropropane	U		0.000907	0.00286	1	10/16/2018 20:00	WG1181654
Di-isopropyl ether	U		0.000400	0.00114	1	10/16/2018 20:00	WG1181654
Ethylbenzene	U		0.000606	0.00286	1	10/16/2018 20:00	WG1181654
Hexachloro-1,3-butadiene	U		0.0145	0.0286	1	10/16/2018 20:00	WG1181654
2-Hexanone	U		0.0114	0.0286	1	10/16/2018 20:00	WG1181654
n-Hexane	U		0.00121	0.00572	1	10/16/2018 20:00	WG1181654
Iodomethane	U		0.00692	0.0143	1	10/16/2018 20:00	WG1181654
Isopropylbenzene	U		0.000988	0.00286	1	10/16/2018 20:00	WG1181654
p-Isopropyltoluene	U		0.00267	0.00572	1	10/16/2018 20:00	WG1181654
2-Butanone (MEK)	U		0.0143	0.0286	1	10/16/2018 20:00	WG1181654
Methylene Chloride	U		0.00760	0.0286	1	10/16/2018 20:00	WG1181654
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0286	1	10/16/2018 20:00	WG1181654

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/15/18 15:24

L1034970

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U	<u>J0</u>	0.000338	0.00114	1	10/16/2018 20:00	WG1181654
Naphthalene	U		0.00357	0.0143	1	10/16/2018 20:00	WG1181654
n-Propylbenzene	U		0.00135	0.00572	1	10/16/2018 20:00	WG1181654
Styrene	U		0.00312	0.0143	1	10/16/2018 20:00	WG1181654
1,1,1,2-Tetrachloroethane	U		0.000572	0.00286	1	10/16/2018 20:00	WG1181654
1,1,2,2-Tetrachloroethane	U	<u>J4</u>	0.000446	0.00286	1	10/16/2018 20:00	WG1181654
1,1,2-Trichlorotrifluoroethane	U		0.000772	0.00286	1	10/16/2018 20:00	WG1181654
Tetrachloroethene	1.99		0.140	0.501	175	10/17/2018 12:52	WG1182096
Toluene	U		0.00143	0.00572	1	10/16/2018 20:00	WG1181654
1,2,3-Trichlorobenzene	U		0.000715	0.00286	1	10/16/2018 20:00	WG1181654
1,2,4-Trichlorobenzene	U		0.00552	0.0143	1	10/16/2018 20:00	WG1181654
1,1,1-Trichloroethane	U		0.000315	0.00286	1	10/16/2018 20:00	WG1181654
1,1,2-Trichloroethane	U	<u>J4</u>	0.00101	0.00286	1	10/16/2018 20:00	WG1181654
Trichloroethene	0.483		0.000458	0.00114	1	10/16/2018 20:00	WG1181654
Trichlorofluoromethane	U		0.000572	0.00286	1	10/16/2018 20:00	WG1181654
1,2,3-Trichloropropane	U		0.00584	0.0143	1	10/16/2018 20:00	WG1181654
1,2,4-Trimethylbenzene	U		0.00133	0.00572	1	10/16/2018 20:00	WG1181654
1,2,3-Trimethylbenzene	U		0.00132	0.00572	1	10/16/2018 20:00	WG1181654
1,3,5-Trimethylbenzene	U		0.00124	0.00572	1	10/16/2018 20:00	WG1181654
Vinyl acetate	U		0.00403	0.0143	1	10/16/2018 20:00	WG1181654
Vinyl chloride	0.00634		0.000782	0.00286	1	10/16/2018 20:00	WG1181654
Xylenes, Total	U		0.00547	0.00744	1	10/16/2018 20:00	WG1181654
(S) Toluene-d8	119			75.0-131		10/16/2018 20:00	WG1181654
(S) Toluene-d8	98.6			75.0-131		10/17/2018 12:52	WG1182096
(S) Dibromofluoromethane	78.1			65.0-129		10/16/2018 20:00	WG1181654
(S) Dibromofluoromethane	118			65.0-129		10/17/2018 12:52	WG1182096
(S) 4-Bromofluorobenzene	95.2			67.0-138		10/16/2018 20:00	WG1181654
(S) 4-Bromofluorobenzene	118			67.0-138		10/17/2018 12:52	WG1182096

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
Acetone	1.59	J	1.05	25.0	1	10/16/2018 13:36	WG1181551
Acrylonitrile	U		0.873	5.00	1	10/16/2018 13:36	WG1181551
Benzene	U		0.0896	0.500	1	10/16/2018 13:36	WG1181551
Bromobenzene	U		0.133	0.500	1	10/16/2018 13:36	WG1181551
Bromodichloromethane	U		0.0800	0.500	1	10/16/2018 13:36	WG1181551
Bromochloromethane	U		0.145	0.500	1	10/16/2018 13:36	WG1181551
Bromoform	U		0.186	0.500	1	10/16/2018 13:36	WG1181551
Bromomethane	U		0.157	2.50	1	10/16/2018 13:36	WG1181551
n-Butylbenzene	U		0.143	0.500	1	10/16/2018 13:36	WG1181551
sec-Butylbenzene	U		0.134	0.500	1	10/16/2018 13:36	WG1181551
tert-Butylbenzene	U		0.183	0.500	1	10/16/2018 13:36	WG1181551
Carbon disulfide	U		0.101	0.500	1	10/16/2018 13:36	WG1181551
Carbon tetrachloride	U		0.159	0.500	1	10/16/2018 13:36	WG1181551
Chlorobenzene	U		0.140	0.500	1	10/16/2018 13:36	WG1181551
Chlorodibromomethane	U		0.128	0.500	1	10/16/2018 13:36	WG1181551
Chloroethane	U		0.141	2.50	1	10/16/2018 13:36	WG1181551
Chloroform	U		0.0860	0.500	1	10/16/2018 13:36	WG1181551
Chloromethane	U		0.153	1.25	1	10/16/2018 13:36	WG1181551
2-Chlorotoluene	U		0.111	0.500	1	10/16/2018 13:36	WG1181551
4-Chlorotoluene	U		0.0972	0.500	1	10/16/2018 13:36	WG1181551
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/16/2018 13:36	WG1181551
1,2-Dibromoethane	U		0.193	0.500	1	10/16/2018 13:36	WG1181551
Dibromomethane	U		0.117	0.500	1	10/16/2018 13:36	WG1181551
1,2-Dichlorobenzene	U		0.101	0.500	1	10/16/2018 13:36	WG1181551
1,3-Dichlorobenzene	U		0.130	0.500	1	10/16/2018 13:36	WG1181551
1,4-Dichlorobenzene	U		0.121	0.500	1	10/16/2018 13:36	WG1181551
Dichlorodifluoromethane	U		0.127	2.50	1	10/16/2018 13:36	WG1181551
1,1-Dichloroethane	U		0.114	0.500	1	10/16/2018 13:36	WG1181551
1,2-Dichloroethane	U		0.108	0.500	1	10/16/2018 13:36	WG1181551
1,1-Dichloroethene	U		0.188	0.500	1	10/16/2018 13:36	WG1181551
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/16/2018 13:36	WG1181551
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/16/2018 13:36	WG1181551
1,2-Dichloropropane	U		0.190	0.500	1	10/16/2018 13:36	WG1181551
1,1-Dichloropropene	U		0.128	0.500	1	10/16/2018 13:36	WG1181551
1,3-Dichloropropane	U		0.147	1.00	1	10/16/2018 13:36	WG1181551
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/16/2018 13:36	WG1181551
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/16/2018 13:36	WG1181551
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/16/2018 13:36	WG1181551
2,2-Dichloropropane	U		0.0929	0.500	1	10/16/2018 13:36	WG1181551
Di-isopropyl ether	U		0.0924	0.500	1	10/16/2018 13:36	WG1181551
Ethylbenzene	U		0.158	0.500	1	10/16/2018 13:36	WG1181551
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/16/2018 13:36	WG1181551
2-Hexanone	U		0.757	5.00	1	10/16/2018 13:36	WG1181551
n-Hexane	U		0.305	5.00	1	10/16/2018 13:36	WG1181551
Iodomethane	U		0.377	10.0	1	10/16/2018 13:36	WG1181551
Isopropylbenzene	U		0.126	0.500	1	10/16/2018 13:36	WG1181551
p-Isopropyltoluene	U		0.138	0.500	1	10/16/2018 13:36	WG1181551
2-Butanone (MEK)	U		1.28	5.00	1	10/16/2018 13:36	WG1181551
Methylene Chloride	U		1.07	2.50	1	10/16/2018 13:36	WG1181551
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/16/2018 13:36	WG1181551
Methyl tert-butyl ether	U		0.102	0.500	1	10/16/2018 13:36	WG1181551
Naphthalene	U		0.174	2.50	1	10/16/2018 13:36	WG1181551
n-Propylbenzene	U		0.162	0.500	1	10/16/2018 13:36	WG1181551
Styrene	U		0.117	0.500	1	10/16/2018 13:36	WG1181551
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/16/2018 13:36	WG1181551
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/16/2018 13:36	WG1181551

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/15/18 00:00

L1034970

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	10/16/2018 13:36	WG1181551
Tetrachloroethene	U		0.199	0.500	1	10/16/2018 13:36	WG1181551
Toluene	U		0.412	0.500	1	10/16/2018 13:36	WG1181551
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/16/2018 13:36	WG1181551
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/16/2018 13:36	WG1181551
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/16/2018 13:36	WG1181551
1,1,2-Trichloroethane	U		0.186	0.500	1	10/16/2018 13:36	WG1181551
Trichloroethene	U		0.153	0.500	1	10/16/2018 13:36	WG1181551
Trichlorofluoromethane	U		0.130	2.50	1	10/16/2018 13:36	WG1181551
1,2,3-Trichloropropane	U		0.247	2.50	1	10/16/2018 13:36	WG1181551
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/16/2018 13:36	WG1181551
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/16/2018 13:36	WG1181551
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/16/2018 13:36	WG1181551
Vinyl acetate	U		0.645	5.00	1	10/16/2018 13:36	WG1181551
Vinyl chloride	U		0.118	0.500	1	10/16/2018 13:36	WG1181551
Xylenes, Total	U		0.316	1.50	1	10/16/2018 13:36	WG1181551
(S) Toluene-d8	97.5			80.0-120		10/16/2018 13:36	WG1181551
(S) Dibromofluoromethane	107			75.0-120		10/16/2018 13:36	WG1181551
(S) 4-Bromofluorobenzene	99.6			77.0-126		10/16/2018 13:36	WG1181551

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



(MB) R3351371-1 10/16/18 14:25

¹Cp ${}^2\text{Tc}$ ${}^3S_S$ ${}^4\text{Cn}$ ^5Sr ⁶Qc

(OS) L1034961-01 10/16/18 14:25 • (DUP) R3351371-3 10/16/18 14:25

GI ${}^8\text{Al}$ ⁹Sc

(LCS) R3351371-2 10/16/18 14:25



Total Solids by Method 2540 G-2011

L1034970-01,02,03,04,06

Method Blank (MB)

(MB) R3352425-1 10/19/18 15:14

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

Cp

 ${}^{235}\text{Tc}$

Ss

 C_n ⁸⁷Sr

Qc

L1034938-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1034938-01 10/19/18 15:14 • (DUP) R3352425-3 10/19/18 15:14

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	95.5	95.5	1	0.0747		10

GI

Al

Sc

Laboratory Control Sample (LCS)

(LCS) R3352425-2 10/19/18 15:14

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3352422-1 10/19/18 13:51

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

L1034970-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1034970-15 10/19/18 13:51 • (DUP) R3352422-3 10/19/18 13:51

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	88.4	87.1	1	1.51		10

Laboratory Control Sample (LCS)

(LCS) R3352422-2 10/19/18 13:51

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3352965-1 10/22/18 09:45

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1034992-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1034992-03 10/22/18 09:45 • (DUP) R3352965-3 10/22/18 09:45

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	83.3	83.0	1	0.330		10

Laboratory Control Sample (LCS)

(LCS) R3352965-2 10/22/18 09:45

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3351080-3 10/16/18 10:10

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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3351080-3 10/16/18 10:10

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	0.452	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	0.228	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	0.312	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	98.5			80.0-120
(S) Dibromofluoromethane	104			75.0-120
(S) 4-Bromofluorobenzene	100			77.0-126

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3351080-1 10/16/18 09:05 • (LCSD) R3351080-2 10/16/18 09:27

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	184	180	147	144	19.0-160			2.27	27
Acrylonitrile	125	143	138	115	110	55.0-149			3.60	20
Benzene	25.0	25.0	24.3	100	97.3	70.0-123			2.81	20
Bromobenzene	25.0	24.5	24.1	98.1	96.4	73.0-121			1.78	20
Bromodichloromethane	25.0	27.1	26.0	109	104	75.0-120			4.36	20
Bromochloromethane	25.0	25.6	25.1	102	100	76.0-122			1.82	20
Bromoform	25.0	25.3	25.2	101	101	68.0-132			0.539	20
Bromomethane	25.0	22.3	21.9	89.3	87.6	10.0-160			1.97	25
n-Butylbenzene	25.0	25.4	25.1	102	101	73.0-125			1.10	20
sec-Butylbenzene	25.0	25.0	24.8	100	99.1	75.0-125			0.844	20
tert-Butylbenzene	25.0	24.5	24.3	98.1	97.3	76.0-124			0.858	20
Carbon disulfide	25.0	21.9	21.8	87.5	87.3	61.0-128			0.173	20
Carbon tetrachloride	25.0	26.9	25.6	108	102	68.0-126			5.06	20
Chlorobenzene	25.0	24.3	23.9	97.3	95.8	80.0-121			1.53	20
Chlorodibromomethane	25.0	25.5	25.1	102	100	77.0-125			1.96	20
Chloroethane	25.0	25.7	25.0	103	100	47.0-150			2.51	20
Chloroform	25.0	26.2	25.6	105	102	73.0-120			2.34	20
Chloromethane	25.0	24.7	23.4	98.7	93.7	41.0-142			5.13	20
2-Chlorotoluene	25.0	24.7	24.2	98.9	96.8	76.0-123			2.20	20
4-Chlorotoluene	25.0	24.7	24.4	98.6	97.6	75.0-122			0.999	20
1,2-Dibromo-3-Chloropropane	25.0	24.0	23.8	96.0	95.1	58.0-134			0.915	20
1,2-Dibromoethane	25.0	24.7	24.0	98.9	95.9	80.0-122			3.05	20
Dibromomethane	25.0	26.7	25.4	107	102	80.0-120			4.89	20
1,2-Dichlorobenzene	25.0	25.1	25.1	100	100	79.0-121			0.119	20
1,3-Dichlorobenzene	25.0	24.6	24.2	98.3	97.0	79.0-120			1.38	20
1,4-Dichlorobenzene	25.0	24.1	24.0	96.4	96.2	79.0-120			0.203	20
Dichlorodifluoromethane	25.0	22.7	21.8	90.8	87.2	51.0-149			4.04	20
1,1-Dichloroethane	25.0	26.8	25.7	107	103	70.0-126			4.20	20
1,2-Dichloroethane	25.0	27.9	26.8	112	107	70.0-128			4.12	20
1,1-Dichloroethene	25.0	24.8	24.3	99.3	97.3	71.0-124			1.99	20
cis-1,2-Dichloroethene	25.0	25.3	24.4	101	97.6	73.0-120			3.50	20
trans-1,2-Dichloroethene	25.0	25.9	25.2	103	101	73.0-120			2.43	20
1,2-Dichloropropane	25.0	25.6	25.0	103	99.8	77.0-125			2.68	20
1,1-Dichloropropene	25.0	26.5	25.8	106	103	74.0-126			2.72	20
1,3-Dichloropropane	25.0	24.1	24.1	96.2	96.4	80.0-120			0.142	20
cis-1,3-Dichloropropene	25.0	23.8	23.6	95.1	94.3	80.0-123			0.866	20
trans-1,3-Dichloropropene	25.0	24.1	23.9	96.2	95.6	78.0-124			0.686	20
trans-1,4-Dichloro-2-butene	25.0	23.5	22.7	94.0	90.9	33.0-144			3.37	20
2,2-Dichloropropane	25.0	24.6	22.8	98.4	91.1	58.0-130			7.61	20
Di-isopropyl ether	25.0	27.3	26.7	109	107	58.0-138			2.40	20

1

Cp

2

Tc

3

Ss

4

Cn

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Sr

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Qc

7

Gl

8

Al

9

Sc

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

(LCS) R3351080-1 10/16/18 09:05 • (LCSD) R3351080-2 10/16/18 09:27

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Ethylbenzene	25.0	24.3	23.9	97.0	95.4	79.0-123			1.67	20
Hexachloro-1,3-butadiene	25.0	22.8	24.1	91.3	96.5	54.0-138			5.47	20
2-Hexanone	125	132	131	106	105	67.0-149			0.505	20
n-Hexane	25.0	24.4	23.2	97.6	92.8	57.0-133			5.07	20
Iodomethane	125	126	122	101	97.8	33.0-147			3.03	26
Isopropylbenzene	25.0	25.1	24.9	100	99.6	76.0-127			0.668	20
p-Isopropyltoluene	25.0	25.3	24.9	101	99.7	76.0-125			1.67	20
2-Butanone (MEK)	125	148	145	118	116	44.0-160			1.65	20
Methylene Chloride	25.0	24.6	23.5	98.4	93.9	67.0-120			4.74	20
4-Methyl-2-pentanone (MIBK)	125	137	135	109	108	68.0-142			0.911	20
Methyl tert-butyl ether	25.0	26.9	25.9	108	104	68.0-125			3.63	20
Naphthalene	25.0	22.2	23.4	89.0	93.7	54.0-135			5.23	20
n-Propylbenzene	25.0	24.6	24.4	98.6	97.7	77.0-124			0.937	20
Styrene	25.0	25.2	25.1	101	100	73.0-130			0.257	20
1,1,1,2-Tetrachloroethane	25.0	25.5	24.8	102	99.1	75.0-125			3.03	20
1,1,2,2-Tetrachloroethane	25.0	23.9	23.1	95.7	92.5	65.0-130			3.38	20
1,1,2-Trichlorotrifluoroethane	25.0	25.1	24.3	101	97.2	69.0-132			3.39	20
Tetrachloroethene	25.0	22.2	21.9	89.0	87.5	72.0-132			1.70	20
Toluene	25.0	23.6	23.0	94.2	92.1	79.0-120			2.28	20
1,2,3-Trichlorobenzene	25.0	22.0	23.4	87.8	93.6	50.0-138			6.32	20
1,2,4-Trichlorobenzene	25.0	24.5	25.6	98.0	103	57.0-137			4.57	20
1,1,1-Trichloroethane	25.0	28.1	27.4	112	109	73.0-124			2.63	20
1,1,2-Trichloroethane	25.0	23.9	24.0	95.7	96.1	80.0-120			0.317	20
Trichloroethene	25.0	26.1	25.6	104	102	78.0-124			1.81	20
Trichlorofluoromethane	25.0	28.1	26.6	112	106	59.0-147			5.64	20
1,2,3-Trichloropropane	25.0	26.6	25.8	106	103	73.0-130			2.76	20
1,2,4-Trimethylbenzene	25.0	25.1	24.5	100	97.9	76.0-121			2.51	20
1,2,3-Trimethylbenzene	25.0	25.3	25.0	101	100	77.0-120			1.10	20
1,3,5-Trimethylbenzene	25.0	25.6	25.1	103	100	76.0-122			2.09	20
Vinyl acetate	125	92.1	77.5	73.6	62.0	11.0-160			17.2	20
Vinyl chloride	25.0	26.0	24.8	104	99.1	67.0-131			4.97	20
Xylenes, Total	75.0	72.9	71.1	97.2	94.8	79.0-123			2.50	20
(S) Toluene-d8				95.5	96.9	80.0-120				
(S) Dibromofluoromethane				105	105	75.0-120				
(S) 4-Bromofluorobenzene				97.8	99.4	77.0-126				

1

Cp

2

Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

9

Sc

Method Blank (MB)

(MB) R3351306-2 10/16/18 12:24

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	0.000576	U	0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3351306-2 10/16/18 12:24

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexachloro-1,3-butadiene	U		0.0127	0.0250
n-Hexane	U		0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	117			75.0-131
(S) Dibromofluoromethane	77.5			65.0-129
(S) 4-Bromofluorobenzene	91.3			67.0-138

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Laboratory Control Sample (LCS)

(LCS) R3351306-1 10/16/18 11:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acrylonitrile	0.625	0.662	106	45.0-153	
Benzene	0.125	0.124	99.0	70.0-123	
Bromobenzene	0.125	0.145	116	73.0-121	
Bromodichloromethane	0.125	0.148	118	73.0-121	
Bromochloromethane	0.125	0.100	80.4	77.0-128	
Bromoform	0.125	0.113	90.2	64.0-132	
Bromomethane	0.125	0.112	89.9	56.0-147	
n-Butylbenzene	0.125	0.141	113	68.0-135	
sec-Butylbenzene	0.125	0.142	113	74.0-130	
tert-Butylbenzene	0.125	0.137	110	75.0-127	
Carbon disulfide	0.125	0.0952	76.2	56.0-133	
Carbon tetrachloride	0.125	0.143	115	66.0-128	
Chlorobenzene	0.125	0.130	104	76.0-128	
Chlorodibromomethane	0.125	0.0970	77.6	74.0-127	
Chloroethane	0.125	0.127	102	61.0-134	
Chloroform	0.125	0.0942	75.4	72.0-123	
Chloromethane	0.125	0.127	101	51.0-138	
2-Chlorotoluene	0.125	0.116	92.9	75.0-124	
4-Chlorotoluene	0.125	0.142	114	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.105	84.4	59.0-130	
1,2-Dibromoethane	0.125	0.119	95.3	74.0-128	
Dibromomethane	0.125	0.161	129	75.0-122	J4
1,2-Dichlorobenzene	0.125	0.139	111	76.0-124	
1,3-Dichlorobenzene	0.125	0.132	106	76.0-125	
1,4-Dichlorobenzene	0.125	0.123	98.5	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.131	105	45.0-143	
Dichlorodifluoromethane	0.125	0.135	108	43.0-156	
1,1-Dichloroethane	0.125	0.125	100	70.0-127	
1,2-Dichloroethane	0.125	0.106	84.8	65.0-131	
1,1-Dichloroethene	0.125	0.105	83.9	65.0-131	
cis-1,2-Dichloroethene	0.125	0.135	108	73.0-125	
trans-1,2-Dichloroethene	0.125	0.130	104	71.0-125	
1,2-Dichloropropane	0.125	0.0978	78.2	74.0-125	
1,1-Dichloropropene	0.125	0.110	88.3	73.0-125	
1,3-Dichloropropane	0.125	0.146	117	80.0-125	
cis-1,3-Dichloropropene	0.125	0.143	114	76.0-127	
trans-1,3-Dichloropropene	0.125	0.142	113	73.0-127	
2,2-Dichloropropane	0.125	0.115	92.2	59.0-135	
Di-isopropyl ether	0.125	0.118	94.7	60.0-136	
Ethylbenzene	0.125	0.101	81.1	74.0-126	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3351306-1 10/16/18 11:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Hexachloro-1,3-butadiene	0.125	0.129	103	57.0-150	
2-Hexanone	0.625	0.771	123	54.0-147	
n-Hexane	0.125	0.150	120	55.0-137	
Iodomethane	0.625	0.599	95.9	74.0-134	
Isopropylbenzene	0.125	0.113	90.7	72.0-127	
p-Isopropyltoluene	0.125	0.135	108	72.0-133	
2-Butanone (MEK)	0.625	0.549	87.8	30.0-160	
Methylene Chloride	0.125	0.130	104	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.734	117	56.0-143	
Methyl tert-butyl ether	0.125	0.0939	75.2	66.0-132	
Naphthalene	0.125	0.118	94.5	59.0-130	
n-Propylbenzene	0.125	0.129	103	74.0-126	
Styrene	0.125	0.120	96.3	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.113	90.3	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.167	134	68.0-128	J4
Toluene	0.125	0.115	91.8	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.138	110	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.104	83.6	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.105	84.3	62.0-137	
1,1,1-Trichloroethane	0.125	0.125	99.9	69.0-126	
1,1,2-Trichloroethane	0.125	0.177	142	78.0-123	J4
Trichloroethene	0.125	0.110	87.8	76.0-126	
Trichlorofluoromethane	0.125	0.137	109	61.0-142	
1,2,3-Trichloropropane	0.125	0.106	84.8	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.137	110	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.101	80.6	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.126	101	73.0-127	
Vinyl acetate	0.625	0.900	144	43.0-159	
Vinyl chloride	0.125	0.110	87.9	63.0-134	
Xylenes, Total	0.375	0.308	82.1	72.0-127	
(S) Toluene-d8			106	75.0-131	
(S) Dibromofluoromethane			93.3	65.0-129	
(S) 4-Bromofluorobenzene			101	67.0-138	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1033617-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1033617-01 10/16/18 13:03 • (MS) R3351306-3 10/16/18 20:20 • (MSD) R3351306-4 10/16/18 20:40

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 %
Acrylonitrile	0.748	ND	0.350	0.408	46.8	54.5	1	10.0-160			15.3	40
Benzene	0.150	ND	0.113	0.0911	75.5	60.9	1	10.0-149			21.3	37
Bromobenzene	0.150	ND	0.148	0.111	99.2	74.2	1	10.0-156			28.9	38
Bromodichloromethane	0.150	ND	0.131	0.128	87.7	85.3	1	10.0-143			2.76	37
Bromochloromethane	0.150	ND	0.0852	0.0834	57.0	55.7	1	10.0-155			2.18	33
Bromoform	0.150	ND	0.107	0.0913	71.3	61.0	1	10.0-146			15.5	36
Bromomethane	0.150	ND	0.0276	0.0234	18.4	15.7	1	10.0-149			16.2	38
n-Butylbenzene	0.150	ND	0.136	0.0843	91.1	56.3	1	10.0-160		J3	47.2	40
sec-Butylbenzene	0.150	ND	0.137	0.0814	91.8	54.4	1	10.0-159		J3	51.1	39
tert-Butylbenzene	0.150	ND	0.132	0.0802	88.0	53.6	1	10.0-156		J3	48.5	39
Carbon disulfide	0.150	ND	0.0651	0.0473	43.5	31.6	1	10.0-145			31.7	39
Carbon tetrachloride	0.150	ND	0.110	0.0768	73.9	51.3	1	10.0-145			36.0	37
Chlorobenzene	0.150	ND	0.132	0.120	88.4	80.0	1	10.0-152			9.90	39
Chlorodibromomethane	0.150	ND	0.0920	0.0979	61.5	65.4	1	10.0-146			6.20	37
Chloroethane	0.150	ND	0.0194	0.0151	9.78	6.90	1	10.0-146	J6	J6	25.0	40
Chloroform	0.150	ND	0.0830	0.0726	55.0	48.1	1	10.0-146			13.4	37
Chloromethane	0.150	ND	0.0941	0.0752	60.7	48.1	1	10.0-159			22.4	37
2-Chlorotoluene	0.150	ND	0.114	0.0767	76.2	51.3	1	10.0-159		J3	39.1	38
4-Chlorotoluene	0.150	ND	0.142	0.0958	94.9	64.1	1	10.0-155			38.8	39
1,2-Dibromo-3-Chloropropane	0.150	ND	0.0986	0.0917	65.9	61.3	1	10.0-151			7.32	39
1,2-Dibromoethane	0.150	ND	0.121	0.133	81.0	89.0	1	10.0-148			9.41	34
Dibromomethane	0.150	ND	0.158	0.144	105	96.5	1	10.0-147			8.73	35
1,2-Dichlorobenzene	0.150	ND	0.143	0.112	95.4	75.1	1	10.0-155			23.8	37
1,3-Dichlorobenzene	0.150	ND	0.134	0.0964	89.5	64.4	1	10.0-153			32.6	38
1,4-Dichlorobenzene	0.150	ND	0.124	0.0926	83.1	61.9	1	10.0-151			29.2	38
trans-1,4-Dichloro-2-butene	0.150	ND	0.127	0.114	85.2	76.3	1	10.0-152			11.0	36
Dichlorodifluoromethane	0.150	ND	0.0854	0.0517	57.1	34.6	1	10.0-160		J3	49.1	35
1,1-Dichloroethane	0.150	ND	0.109	0.0894	72.9	59.8	1	10.0-147			19.8	37
1,2-Dichloroethane	0.150	ND	0.0942	0.0960	61.8	63.0	1	10.0-148			1.88	35
1,1-Dichloroethene	0.150	ND	0.0825	0.0573	55.2	38.3	1	10.0-155			36.1	37
cis-1,2-Dichloroethene	0.150	ND	0.118	0.103	79.2	69.0	1	10.0-149			13.8	37
trans-1,2-Dichloroethene	0.150	ND	0.108	0.0829	72.0	55.4	1	10.0-150			26.1	37
1,2-Dichloropropane	0.150	ND	0.0917	0.0836	61.3	55.9	1	10.0-148			9.18	37
1,1-Dichloropropene	0.150	ND	0.0928	0.0657	62.0	43.9	1	10.0-153			34.1	35
1,3-Dichloropropane	0.150	ND	0.159	0.169	105	111	1	10.0-154			5.92	35
cis-1,3-Dichloropropene	0.150	ND	0.132	0.130	88.2	86.9	1	10.0-151			1.54	37
trans-1,3-Dichloropropene	0.150	ND	0.133	0.139	89.1	93.1	1	10.0-148			4.40	37
2,2-Dichloropropane	0.150	ND	0.0691	0.0544	46.2	36.3	1	10.0-138			23.8	36
Di-isopropyl ether	0.150	ND	0.105	0.102	70.1	67.9	1	10.0-147			3.20	36

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



L1033617-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1033617-01 10/16/18 13:03 • (MS) R3351306-3 10/16/18 20:20 • (MSD) R3351306-4 10/16/18 20:40

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	0.150	ND	0.0998	0.0815	66.7	54.5	1	10.0-160			20.2	38
Hexachloro-1,3-butadiene	0.150	ND	0.126	0.0814	84.0	54.4	1	10.0-160		J3	42.8	40
2-Hexanone	0.748	ND	0.765	0.961	102	128	1	10.0-160			22.7	36
n-Hexane	0.150	ND	0.105	0.0601	70.5	40.1	1	10.0-157		J3	54.8	37
Iodomethane	0.748	ND	0.470	0.395	62.8	52.8	1	10.0-160			17.3	38
Isopropylbenzene	0.150	ND	0.109	0.0659	72.8	44.1	1	10.0-155		J3	49.1	38
p-Isopropyltoluene	0.150	ND	0.128	0.0797	85.8	53.3	1	10.0-160		J3	46.8	40
2-Butanone (MEK)	0.748	ND	0.322	0.331	43.0	44.3	1	10.0-160			2.88	40
Methylene Chloride	0.150	ND	0.110	0.103	73.8	68.6	1	10.0-141			7.31	37
4-Methyl-2-pentanone (MIBK)	0.748	ND	0.730	0.921	97.6	123	1	10.0-160			23.1	35
Methyl tert-butyl ether	0.150	ND	0.0618	0.0678	41.3	45.3	1	11.0-147			9.24	35
Naphthalene	0.150	ND	0.130	0.117	87.1	78.3	1	10.0-160			10.6	36
n-Propylbenzene	0.150	ND	0.127	0.0766	85.0	51.2	1	10.0-158		J3	49.6	38
Styrene	0.150	ND	0.124	0.0882	82.8	59.0	1	10.0-160			33.6	40
1,1,1,2-Tetrachloroethane	0.150	ND	0.105	0.101	69.9	67.4	1	10.0-149			3.79	39
1,1,2,2-Tetrachloroethane	0.150	ND	0.173	0.154	116	103	1	10.0-160			11.9	35
Toluene	0.150	ND	0.113	0.0938	75.3	62.7	1	10.0-156			18.3	38
1,1,2-Trichlorotrifluoroethane	0.150	ND	0.103	0.0635	69.0	42.5	1	10.0-160		J3	47.6	36
1,2,3-Trichlorobenzene	0.150	ND	0.113	0.0942	75.8	63.0	1	10.0-160			18.5	40
1,2,4-Trichlorobenzene	0.150	ND	0.109	0.0879	73.2	58.8	1	10.0-160			21.8	40
1,1,1-Trichloroethane	0.150	ND	0.0962	0.0715	64.3	47.8	1	10.0-144			29.5	35
1,1,2-Trichloroethane	0.150	0.0746	0.187	0.202	75.4	85.3	1	10.0-160			7.56	35
Trichloroethene	0.150	ND	0.0981	0.0788	65.6	52.7	1	10.0-156			21.9	38
Trichlorofluoromethane	0.150	ND	0.0986	0.0624	65.9	41.7	1	10.0-160		J3	45.0	40
1,2,3-Trichloropropane	0.150	ND	0.114	0.101	75.9	67.3	1	10.0-156			12.0	35
1,2,3-Trimethylbenzene	0.150	ND	0.138	0.0988	92.1	66.0	1	10.0-160			33.0	36
1,2,4-Trimethylbenzene	0.150	ND	0.0978	0.0661	65.4	44.2	1	10.0-160		J3	38.7	36
1,3,5-Trimethylbenzene	0.150	ND	0.121	0.0779	81.0	52.1	1	10.0-160		J3	43.4	38
Vinyl acetate	0.748	ND	0.483	0.503	64.6	67.3	1	10.0-128			4.11	40
Vinyl chloride	0.150	ND	0.00568	0.00461	3.80	3.08	1	10.0-160	J6	J6	20.8	37
Xylenes, Total	0.449	ND	0.298	0.251	66.5	55.8	1	10.0-160			17.4	38
(S) Toluene-d8					113	114		75.0-131				
(S) Dibromofluoromethane					81.4	80.1		65.0-129				
(S) 4-Bromofluorobenzene					104	88.1		67.0-138				

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3351518-3 10/17/18 11:40

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Tetrachloroethene	U		0.000700	0.00250
(S) Toluene-d8	99.9			75.0-131
(S) Dibromofluoromethane	119			65.0-129
(S) 4-Bromofluorobenzene	123			67.0-138

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R3351518-1 10/17/18 10:40 • (LCSD) R3351518-2 10/17/18 11:00

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	0.625	0.824	0.737	132	118	10.0-160			11.2	31
Tetrachloroethene	0.125	0.103	0.105	82.4	84.0	70.0-136			1.90	20
(S) Toluene-d8				99.2	99.1	75.0-131				
(S) Dibromofluoromethane				121	119	65.0-129				
(S) 4-Bromofluorobenzene				114	121	67.0-138				

Method Blank (MB)

(MB) R3351794-2 10/18/18 10:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3351794-2 10/18/18 10:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexachloro-1,3-butadiene	U		0.0127	0.0250
n-Hexane	U		0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	117			75.0-131
(S) Dibromofluoromethane	77.7			65.0-129
(S) 4-Bromofluorobenzene	92.4			67.0-138

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Laboratory Control Sample (LCS)

(LCS) R3351794-1 10/18/18 08:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acrylonitrile	0.625	0.626	100	45.0-153	
Benzene	0.125	0.132	106	70.0-123	
Bromobenzene	0.125	0.127	102	73.0-121	
Bromodichloromethane	0.125	0.145	116	73.0-121	
Bromochloromethane	0.125	0.103	82.2	77.0-128	
Bromoform	0.125	0.0934	74.7	64.0-132	
Bromomethane	0.125	0.112	89.7	56.0-147	
n-Butylbenzene	0.125	0.122	97.3	68.0-135	
sec-Butylbenzene	0.125	0.123	98.3	74.0-130	
tert-Butylbenzene	0.125	0.118	94.0	75.0-127	
Carbon disulfide	0.125	0.104	83.1	56.0-133	
Carbon tetrachloride	0.125	0.149	120	66.0-128	
Chlorobenzene	0.125	0.132	105	76.0-128	
Chlorodibromomethane	0.125	0.0947	75.7	74.0-127	
Chloroethane	0.125	0.131	105	61.0-134	
Chloroform	0.125	0.0989	79.1	72.0-123	
Chloromethane	0.125	0.134	107	51.0-138	
2-Chlorotoluene	0.125	0.101	81.1	75.0-124	
4-Chlorotoluene	0.125	0.126	101	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.0802	64.2	59.0-130	
1,2-Dibromoethane	0.125	0.118	94.5	74.0-128	
Dibromomethane	0.125	0.160	128	75.0-122	J4
1,2-Dichlorobenzene	0.125	0.120	95.8	76.0-124	
1,3-Dichlorobenzene	0.125	0.116	92.8	76.0-125	
1,4-Dichlorobenzene	0.125	0.107	85.6	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.108	86.7	45.0-143	
Dichlorodifluoromethane	0.125	0.135	108	43.0-156	
1,1-Dichloroethane	0.125	0.133	106	70.0-127	
1,2-Dichloroethane	0.125	0.109	87.4	65.0-131	
1,1-Dichloroethene	0.125	0.113	90.1	65.0-131	
cis-1,2-Dichloroethene	0.125	0.141	113	73.0-125	
trans-1,2-Dichloroethene	0.125	0.136	109	71.0-125	
1,2-Dichloropropane	0.125	0.0998	79.8	74.0-125	
1,1-Dichloropropene	0.125	0.119	95.6	73.0-125	
1,3-Dichloropropane	0.125	0.151	121	80.0-125	
cis-1,3-Dichloropropene	0.125	0.142	114	76.0-127	
trans-1,3-Dichloropropene	0.125	0.140	112	73.0-127	
2,2-Dichloropropane	0.125	0.126	101	59.0-135	
Di-isopropyl ether	0.125	0.123	98.3	60.0-136	
Ethylbenzene	0.125	0.101	80.4	74.0-126	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3351794-1 10/18/18 08:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Hexachloro-1,3-butadiene	0.125	0.114	91.0	57.0-150	
2-Hexanone	0.625	0.673	108	54.0-147	
n-Hexane	0.125	0.163	130	55.0-137	
Iodomethane	0.625	0.626	100	74.0-134	
Isopropylbenzene	0.125	0.0984	78.7	72.0-127	
p-Isopropyltoluene	0.125	0.114	91.5	72.0-133	
2-Butanone (MEK)	0.625	0.536	85.8	30.0-160	
Methylene Chloride	0.125	0.135	108	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.677	108	56.0-143	
Methyl tert-butyl ether	0.125	0.0922	73.8	66.0-132	
Naphthalene	0.125	0.0899	71.9	59.0-130	
n-Propylbenzene	0.125	0.113	90.0	74.0-126	
Styrene	0.125	0.100	80.2	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.111	89.0	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.139	111	68.0-128	
Tetrachloroethene	0.125	0.172	138	70.0-136	J4
Toluene	0.125	0.120	96.0	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.148	118	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.0856	68.5	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.0864	69.1	62.0-137	
1,1,1-Trichloroethane	0.125	0.131	104	69.0-126	
1,1,2-Trichloroethane	0.125	0.178	142	78.0-123	J4
Trichloroethene	0.125	0.113	90.6	76.0-126	
Trichlorofluoromethane	0.125	0.141	112	61.0-142	
1,2,3-Trichloropropane	0.125	0.0900	72.0	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.118	94.7	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.0847	67.7	70.0-126	J4
1,3,5-Trimethylbenzene	0.125	0.108	86.5	73.0-127	
Vinyl acetate	0.625	0.794	127	43.0-159	
Vinyl chloride	0.125	0.114	91.3	63.0-134	
Xylenes, Total	0.375	0.306	81.6	72.0-127	
(S) Toluene-d8			107	75.0-131	
(S) Dibromofluoromethane			92.9	65.0-129	
(S) 4-Bromofluorobenzene			93.9	67.0-138	

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

L1034970-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1034970-12 10/18/18 18:47 • (MS) R3351794-3 10/18/18 19:06 • (MSD) R3351794-4 10/18/18 19:26

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 %
Acrylonitrile	0.657	U	0.160	0.259	24.3	39.4	1	10.0-160		J3	47.3	40
Benzene	0.131	U	0.0799	0.0812	60.8	61.9	1	10.0-149			1.66	37
Bromobenzene	0.131	U	0.112	0.0930	85.5	70.8	1	10.0-156			18.8	38
Bromodichloromethane	0.131	U	0.106	0.104	80.8	79.0	1	10.0-143			2.16	37
Bromochloromethane	0.131	U	0.0609	0.0615	46.4	46.8	1	10.0-155			0.935	33
Bromoform	0.131	U	0.0818	0.0704	62.3	53.6	1	10.0-146			15.0	36
Bromomethane	0.131	U	0.0173	0.0160	13.2	12.2	1	10.0-149			8.16	38
n-Butylbenzene	0.131	U	0.100	0.0809	76.2	61.6	1	10.0-160			21.2	40
sec-Butylbenzene	0.131	U	0.0983	0.0799	74.9	60.8	1	10.0-159			20.7	39
tert-Butylbenzene	0.131	U	0.0927	0.0770	70.6	58.6	1	10.0-156			18.5	39
Carbon disulfide	0.131	U	0.0396	0.0376	30.1	28.6	1	10.0-145			5.09	39
Carbon tetrachloride	0.131	U	0.0816	0.0771	62.1	58.7	1	10.0-145			5.63	37
Chlorobenzene	0.131	U	0.100	0.0957	76.4	72.9	1	10.0-152			4.72	39
Chlorodibromomethane	0.131	U	0.0744	0.0725	56.7	55.2	1	10.0-146			2.66	37
Chloroethane	0.131	U	0.0148	0.0159	11.3	12.1	1	10.0-146			7.01	40
Chloroform	0.131	0.000670	0.0620	0.0612	46.7	46.1	1	10.0-146			1.37	37
Chloromethane	0.131	U	0.0693	0.0653	52.8	49.7	1	10.0-159			5.94	37
2-Chlorotoluene	0.131	U	0.0824	0.0676	62.7	51.5	1	10.0-159			19.6	38
4-Chlorotoluene	0.131	U	0.104	0.0855	79.2	65.1	1	10.0-155			19.6	39
1,2-Dibromo-3-Chloropropane	0.131	U	0.0778	0.0657	59.2	50.0	1	10.0-151			16.8	39
1,2-Dibromoethane	0.131	U	0.0946	0.0927	72.0	70.6	1	10.0-148			2.06	34
Dibromomethane	0.131	U	0.101	0.124	76.8	94.3	1	10.0-147			20.4	35
1,2-Dichlorobenzene	0.131	U	0.112	0.0930	85.1	70.8	1	10.0-155			18.3	37
1,3-Dichlorobenzene	0.131	U	0.102	0.0837	77.4	63.7	1	10.0-153			19.5	38
1,4-Dichlorobenzene	0.131	U	0.0942	0.0783	71.7	59.6	1	10.0-151			18.5	38
trans-1,4-Dichloro-2-butene	0.131	U	0.101	0.0868	77.1	66.1	1	10.0-152			15.3	36
Dichlorodifluoromethane	0.131	U	0.0661	0.0607	50.3	46.2	1	10.0-160			8.56	35
1,1-Dichloroethane	0.131	U	0.0811	0.0791	61.8	60.2	1	10.0-147			2.55	37
1,2-Dichloroethane	0.131	U	0.0699	0.0721	53.3	54.9	1	10.0-148			3.02	35
1,1-Dichloroethene	0.131	U	0.0594	0.0567	45.2	43.2	1	10.0-155			4.64	37
cis-1,2-Dichloroethene	0.131	0.0268	0.127	0.130	76.1	78.3	1	10.0-149			2.29	37
trans-1,2-Dichloroethene	0.131	U	0.0763	0.0730	58.1	55.6	1	10.0-150			4.39	37
1,2-Dichloropropane	0.131	U	0.0531	0.0524	40.5	39.9	1	10.0-148			1.39	37
1,1-Dichloropropene	0.131	U	0.0661	0.0634	50.3	48.3	1	10.0-153			4.24	35
1,3-Dichloropropane	0.131	U	0.128	0.125	97.4	95.1	1	10.0-154			2.42	35
cis-1,3-Dichloropropene	0.131	U	0.107	0.104	81.8	78.9	1	10.0-151			3.55	37
trans-1,3-Dichloropropene	0.131	U	0.107	0.103	81.4	78.6	1	10.0-148			3.46	37
2,2-Dichloropropane	0.131	U	0.0496	0.0483	37.7	36.8	1	10.0-138			2.61	36
Di-isopropyl ether	0.131	U	0.0829	0.0817	63.1	62.2	1	10.0-147			1.53	36

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1034970-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1034970-12 10/18/18 18:47 • (MS) R3351794-3 10/18/18 19:06 • (MSD) R3351794-4 10/18/18 19:26

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 %
Ethylbenzene	0.131	U	0.0724	0.0687	55.2	52.3	1	10.0-160			5.34	38
Hexachloro-1,3-butadiene	0.131	U	0.0993	0.0817	75.6	62.2	1	10.0-160			19.5	40
2-Hexanone	0.657	U	0.628	0.633	95.7	96.5	1	10.0-160			0.785	36
n-Hexane	0.131	U	0.0640	0.0621	48.7	47.3	1	10.0-157			3.06	37
Iodomethane	0.657	U	0.333	0.319	50.7	48.5	1	10.0-160			4.31	38
Isopropylbenzene	0.131	U	0.0761	0.0629	57.9	47.9	1	10.0-155			19.0	38
p-Isopropyltoluene	0.131	U	0.0926	0.0753	70.5	57.3	1	10.0-160			20.7	40
2-Butanone (MEK)	0.657	U	0.266	0.241	40.6	36.7	1	10.0-160			9.98	40
Methylene Chloride	0.131	U	0.0824	0.0800	62.7	60.9	1	10.0-141			2.97	37
4-Methyl-2-pentanone (MIBK)	0.657	U	0.631	0.635	96.2	96.7	1	10.0-160			0.512	35
Methyl tert-butyl ether	0.131	U	0.0516	0.0507	39.3	38.6	1	11.0-147			1.78	35
Naphthalene	0.131	U	0.103	0.0871	78.5	66.3	1	10.0-160			16.8	36
n-Propylbenzene	0.131	U	0.0889	0.0728	67.7	55.4	1	10.0-158			19.9	38
Styrene	0.131	U	0.0873	0.0725	66.5	55.2	1	10.0-160			18.6	40
1,1,1,2-Tetrachloroethane	0.131	U	0.0828	0.0799	63.1	60.9	1	10.0-149			3.57	39
1,1,2,2-Tetrachloroethane	0.131	U	0.136	0.116	103	88.0	1	10.0-160			15.8	35
Tetrachloroethene	0.131	0.558	0.962	0.897	308	258	1	10.0-156	V	V	6.99	39
Toluene	0.131	U	0.0838	0.0797	63.8	60.7	1	10.0-156			4.99	38
1,1,2-Trichlorotrifluoroethane	0.131	U	0.0783	0.0735	59.6	56.0	1	10.0-160			6.30	36
1,2,3-Trichlorobenzene	0.131	U	0.0910	0.0768	69.3	58.5	1	10.0-160			16.9	40
1,2,4-Trichlorobenzene	0.131	U	0.0872	0.0722	66.4	55.0	1	10.0-160			18.8	40
1,1,1-Trichloroethane	0.131	U	0.0721	0.0691	54.9	52.6	1	10.0-144			4.24	35
1,1,2-Trichloroethane	0.131	U	0.151	0.147	115	112	1	10.0-160			2.59	35
Trichloroethene	0.131	0.0656	0.194	0.185	97.7	90.7	1	10.0-156			4.88	38
Trichlorofluoromethane	0.131	U	0.0716	0.0675	54.6	51.4	1	10.0-160			5.89	40
1,2,3-Trichloropropane	0.131	U	0.0885	0.0752	67.4	57.3	1	10.0-156			16.2	35
1,2,3-Trimethylbenzene	0.131	U	0.101	0.0826	77.0	62.9	1	10.0-160			20.1	36
1,2,4-Trimethylbenzene	0.131	U	0.0701	0.0575	53.3	43.8	1	10.0-160			19.7	36
1,3,5-Trimethylbenzene	0.131	U	0.0865	0.0709	65.9	54.0	1	10.0-160			19.8	38
Vinyl acetate	0.657	U	0.375	0.0659	57.1	10.0	1	10.0-128		J3	140	40
Vinyl chloride	0.131	U	0.00375	0.00375	2.85	2.86	1	10.0-160	J6	J6	0.112	37
Xylenes, Total	0.394	U	0.220	0.209	55.8	53.0	1	10.0-160			5.10	38
(S) Toluene-d8					113	113		75.0-131				
(S) Dibromofluoromethane					77.2	79.2		65.0-129				
(S) 4-Bromofluorobenzene					99.5	91.3		67.0-138				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3352706-2 10/19/18 19:37

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	0.00129	U	0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250

1

Cp

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Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3352706-2 10/19/18 19:37

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexachloro-1,3-butadiene	U		0.0127	0.0250
n-Hexane	U		0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
Methylene Chloride	0.0187	U	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	131			75.0-131
(S) Dibromofluoromethane	91.7			65.0-129
(S) 4-Bromofluorobenzene	99.0			67.0-138

1

Cp

2

Tc

3

Ss

4

Cn

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Sr

6

Qc

7

Gl

8

Al

9

Sc



Laboratory Control Sample (LCS)

(LCS) R3352706-1 10/19/18 18:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	0.625	0.752	120	10.0-160	
Acrylonitrile	0.625	0.684	109	45.0-153	
Benzene	0.125	0.119	95.4	70.0-123	
Bromobenzene	0.125	0.113	90.3	73.0-121	
Bromodichloromethane	0.125	0.127	102	73.0-121	
Bromochloromethane	0.125	0.121	96.9	77.0-128	
Bromoform	0.125	0.0874	69.9	64.0-132	
Bromomethane	0.125	0.111	88.6	56.0-147	
n-Butylbenzene	0.125	0.117	93.6	68.0-135	
sec-Butylbenzene	0.125	0.119	95.0	74.0-130	
tert-Butylbenzene	0.125	0.119	94.9	75.0-127	
Carbon disulfide	0.125	0.0921	73.7	56.0-133	
Carbon tetrachloride	0.125	0.113	90.2	66.0-128	
Chlorobenzene	0.125	0.110	88.3	76.0-128	
Chlorodibromomethane	0.125	0.102	81.3	74.0-127	
Chloroethane	0.125	0.110	88.2	61.0-134	
Chloroform	0.125	0.127	102	72.0-123	
Chloromethane	0.125	0.144	115	51.0-138	
2-Chlorotoluene	0.125	0.109	87.4	75.0-124	
4-Chlorotoluene	0.125	0.125	99.7	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.0955	76.4	59.0-130	
1,2-Dibromoethane	0.125	0.115	92.4	74.0-128	
Dibromomethane	0.125	0.115	92.1	75.0-122	
1,2-Dichlorobenzene	0.125	0.124	99.3	76.0-124	
1,3-Dichlorobenzene	0.125	0.114	91.3	76.0-125	
1,4-Dichlorobenzene	0.125	0.113	90.4	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.118	94.7	45.0-143	
Dichlorodifluoromethane	0.125	0.176	141	43.0-156	
1,1-Dichloroethane	0.125	0.129	103	70.0-127	
1,2-Dichloroethane	0.125	0.133	106	65.0-131	
1,1-Dichloroethene	0.125	0.124	99.5	65.0-131	
cis-1,2-Dichloroethene	0.125	0.124	99.0	73.0-125	
trans-1,2-Dichloroethene	0.125	0.118	94.1	71.0-125	
1,1-Dichloropropene	0.125	0.125	99.7	73.0-125	
1,3-Dichloropropane	0.125	0.125	100	80.0-125	
cis-1,3-Dichloropropene	0.125	0.115	91.8	76.0-127	
trans-1,3-Dichloropropene	0.125	0.102	81.7	73.0-127	
2,2-Dichloropropane	0.125	0.136	109	59.0-135	
Di-isopropyl ether	0.125	0.140	112	60.0-136	
Ethylbenzene	0.125	0.124	99.0	74.0-126	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3352706-1 10/19/18 18:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Hexachloro-1,3-butadiene	0.125	0.0992	79.4	57.0-150	
2-Hexanone	0.625	0.676	108	54.0-147	
n-Hexane	0.125	0.142	114	55.0-137	
Iodomethane	0.625	0.587	93.9	74.0-134	
Isopropylbenzene	0.125	0.113	90.1	72.0-127	
p-Isopropyltoluene	0.125	0.120	96.0	72.0-133	
Methylene Chloride	0.125	0.116	92.5	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.768	123	56.0-143	
Methyl tert-butyl ether	0.125	0.131	105	66.0-132	
Naphthalene	0.125	0.114	90.9	59.0-130	
n-Propylbenzene	0.125	0.115	92.1	74.0-126	
Styrene	0.125	0.0973	77.9	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.114	91.5	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.122	97.2	68.0-128	
Tetrachloroethene	0.125	0.130	104	70.0-136	
Toluene	0.125	0.129	103	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.119	95.0	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.118	94.7	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.106	84.5	62.0-137	
1,1,1-Trichloroethane	0.125	0.107	85.6	69.0-126	
Trichloroethene	0.125	0.0970	77.6	76.0-126	
Trichlorofluoromethane	0.125	0.135	108	61.0-142	
1,2,3-Trichloropropane	0.125	0.125	100	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.120	96.2	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.114	91.0	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.115	92.3	73.0-127	
Vinyl acetate	0.625	0.949	152	43.0-159	
Vinyl chloride	0.125	0.114	91.4	63.0-134	
Xylenes, Total	0.375	0.336	89.6	72.0-127	
(S) Toluene-d8			108	75.0-131	
(S) Dibromofluoromethane			107	65.0-129	
(S) 4-Bromofluorobenzene			95.6	67.0-138	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



L1034970-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1034970-23 10/20/18 00:55 • (MS) R3352706-3 10/19/18 19:57 • (MSD) R3352706-4 10/19/18 20:28

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 %
Acetone	0.686	U	0.726	0.616	106	89.7	1	10.0-160			16.4	40
Acrylonitrile	0.686	U	0.487	0.471	71.0	68.7	1	10.0-160			3.33	40
Benzene	0.137	U	0.121	0.118	88.2	86.1	1	10.0-149			2.43	37
Bromobenzene	0.137	U	0.110	0.111	79.8	81.1	1	10.0-156			1.60	38
Bromodichloromethane	0.137	U	0.126	0.124	91.4	90.6	1	10.0-143			0.864	37
Bromochloromethane	0.137	U	0.112	0.120	81.9	87.5	1	10.0-155			6.64	33
Bromoform	0.137	U	0.0746	0.0759	54.4	55.3	1	10.0-146			1.61	36
Bromomethane	0.137	U	0.0687	0.0881	50.0	64.1	1	10.0-149			24.7	38
n-Butylbenzene	0.137	U	0.114	0.116	83.1	84.6	1	10.0-160			1.87	40
sec-Butylbenzene	0.137	U	0.117	0.121	85.2	88.1	1	10.0-159			3.32	39
tert-Butylbenzene	0.137	U	0.115	0.119	84.0	86.5	1	10.0-156			2.90	39
Carbon disulfide	0.137	U	0.0956	0.0960	69.6	69.9	1	10.0-145			0.398	39
Carbon tetrachloride	0.137	U	0.112	0.108	81.7	78.8	1	10.0-145			3.66	37
Chlorobenzene	0.137	U	0.109	0.109	79.6	79.5	1	10.0-152			0.188	39
Chlorodibromomethane	0.137	U	0.0903	0.0932	65.8	67.9	1	10.0-146			3.11	37
Chloroethane	0.137	U	0.0688	0.0890	50.1	64.8	1	10.0-146			25.5	40
Chloroform	0.137	U	0.124	0.121	90.7	88.1	1	10.0-146			2.81	37
Chloromethane	0.137	U	0.162	0.159	118	116	1	10.0-159			1.90	37
2-Chlorotoluene	0.137	U	0.104	0.108	75.5	78.9	1	10.0-159			4.41	38
4-Chlorotoluene	0.137	U	0.116	0.120	84.5	87.1	1	10.0-155			2.97	39
1,2-Dibromo-3-Chloropropane	0.137	U	0.0786	0.0839	57.2	61.1	1	10.0-151			6.54	39
1,2-Dibromoethane	0.137	U	0.103	0.106	75.2	77.4	1	10.0-148			2.89	34
Dibromomethane	0.137	U	0.107	0.106	77.8	77.0	1	10.0-147			1.12	35
1,2-Dichlorobenzene	0.137	U	0.110	0.114	80.4	83.0	1	10.0-155			3.14	37
1,3-Dichlorobenzene	0.137	U	0.109	0.116	79.7	84.3	1	10.0-153			5.64	38
1,4-Dichlorobenzene	0.137	U	0.104	0.107	76.0	77.9	1	10.0-151			2.42	38
trans-1,4-Dichloro-2-butene	0.137	U	0.106	0.105	77.0	76.8	1	10.0-152			0.275	36
Dichlorodifluoromethane	0.137	U	0.217	0.208	158	151	1	10.0-160			4.45	35
1,1-Dichloroethane	0.137	U	0.123	0.125	89.7	91.1	1	10.0-147			1.53	37
1,2-Dichloroethane	0.137	U	0.124	0.121	90.5	88.3	1	10.0-148			2.45	35
1,1-Dichloroethene	0.137	U	0.128	0.120	93.2	87.2	1	10.0-155			6.64	37
cis-1,2-Dichloroethene	0.137	0.207	0.351	0.336	105	94.0	1	10.0-149			4.35	37
trans-1,2-Dichloroethene	0.137	U	0.113	0.111	82.5	80.5	1	10.0-150			2.38	37
1,1-Dichloropropene	0.137	U	0.122	0.118	88.9	86.1	1	10.0-153			3.21	35
1,3-Dichloropropane	0.137	U	0.120	0.122	87.5	88.7	1	10.0-154			1.40	35
cis-1,3-Dichloropropene	0.137	U	0.107	0.107	77.6	78.0	1	10.0-151			0.502	37
trans-1,3-Dichloropropene	0.137	U	0.101	0.0965	73.2	70.3	1	10.0-148			4.02	37
2,2-Dichloropropane	0.137	U	0.118	0.121	85.7	87.8	1	10.0-138			2.39	36
Di-isopropyl ether	0.137	U	0.127	0.128	92.3	93.2	1	10.0-147			0.982	36

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1034970-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1034970-23 10/20/18 00:55 • (MS) R3352706-3 10/19/18 19:57 • (MSD) R3352706-4 10/19/18 20:28

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 %
Ethylbenzene	0.137	U	0.124	0.123	90.2	89.8	1	10.0-160			0.437	38
Hexachloro-1,3-butadiene	0.137	U	0.105	0.104	76.2	75.9	1	10.0-160			0.409	40
2-Hexanone	0.686	U	0.482	0.470	70.3	68.4	1	10.0-160			2.65	36
n-Hexane	0.137	U	0.149	0.152	109	111	1	10.0-157			1.74	37
Iodomethane	0.686	U	0.550	0.544	80.0	79.3	1	10.0-160			0.949	38
Isopropylbenzene	0.137	U	0.110	0.114	80.3	83.1	1	10.0-155			3.41	38
p-Isopropyltoluene	0.137	U	0.117	0.121	84.9	88.0	1	10.0-160			3.56	40
Methylene Chloride	0.137	U	0.113	0.115	82.6	83.7	1	10.0-141			1.34	37
4-Methyl-2-pentanone (MIBK)	0.686	U	0.618	0.609	90.0	88.7	1	10.0-160			1.45	35
Methyl tert-butyl ether	0.137	U	0.115	0.113	83.8	82.2	1	11.0-147			1.98	35
Naphthalene	0.137	U	0.100	0.101	72.9	73.9	1	10.0-160			1.30	36
n-Propylbenzene	0.137	U	0.112	0.113	81.3	82.3	1	10.0-158			1.21	38
Styrene	0.137	U	0.0942	0.0966	68.6	70.4	1	10.0-160			2.53	40
1,1,1,2-Tetrachloroethane	0.137	U	0.110	0.110	79.8	80.0	1	10.0-149			0.243	39
1,1,2,2-Tetrachloroethane	0.137	U	0.102	0.101	74.4	73.4	1	10.0-160			1.31	35
Tetrachloroethene	0.137	1.72	1.97	1.94	187	159	1	10.0-156	EV	EV	1.91	39
Toluene	0.137	U	0.132	0.131	96.0	95.7	1	10.0-156			0.312	38
1,1,2-Trichlorotrifluoroethane	0.137	U	0.109	0.107	79.5	78.2	1	10.0-160			1.58	36
1,2,3-Trichlorobenzene	0.137	U	0.113	0.120	82.3	87.6	1	10.0-160			6.27	40
1,2,4-Trichlorobenzene	0.137	U	0.101	0.104	73.8	75.4	1	10.0-160			2.10	40
1,1,1-Trichloroethane	0.137	U	0.109	0.105	79.6	76.7	1	10.0-144			3.72	35
Trichloroethene	0.137	0.266	0.408	0.383	103	85.4	1	10.0-156			6.17	38
Trichlorofluoromethane	0.137	U	0.114	0.138	82.7	101	1	10.0-160			19.8	40
1,2,3-Trichloropropane	0.137	U	0.105	0.114	76.5	83.1	1	10.0-156			8.21	35
1,2,3-Trimethylbenzene	0.137	U	0.107	0.111	77.7	80.8	1	10.0-160			3.96	36
1,2,4-Trimethylbenzene	0.137	U	0.108	0.109	79.0	79.3	1	10.0-160			0.454	36
1,3,5-Trimethylbenzene	0.137	U	0.110	0.113	79.8	82.0	1	10.0-160			2.80	38
Vinyl acetate	0.686	U	0.368	0.353	53.6	51.4	1	10.0-128			4.19	40
Vinyl chloride	0.137	0.00602	0.0972	0.100	66.4	68.5	1	10.0-160			2.95	37
Xylenes, Total	0.412	U	0.335	0.339	81.3	82.4	1	10.0-160			1.30	38
(S) Toluene-d8					111	112		75.0-131				
(S) Dibromofluoromethane					100	99.2		65.0-129				
(S) 4-Bromofluorobenzene					92.6	96.8		67.0-138				

Sample Narrative:
OS: Not all compounds reportable at lower dilution.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3352594-3 10/21/18 10:31

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
cis-1,2-Dichloroethene	U		0.000690	0.00250
Tetrachloroethene	U		0.000700	0.00250
(S) Toluene-d8	103			75.0-131
(S) Dibromofluoromethane	114			65.0-129
(S) 4-Bromofluorobenzene	118			67.0-138

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

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

(LCS) R3352594-1 10/21/18 09:13 • (LCSD) R3352594-2 10/21/18 09:32

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	0.625	0.750	0.737	120	118	10.0-160			1.79	31
cis-1,2-Dichloroethene	0.125	0.138	0.133	110	106	73.0-125			3.38	20
Tetrachloroethene	0.125	0.0938	0.0918	75.1	73.4	70.0-136			2.19	20
(S) Toluene-d8				96.7	98.9	75.0-131				
(S) Dibromofluoromethane				117	117	65.0-129				
(S) 4-Bromofluorobenzene				119	118	67.0-138				

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3352734-2 10/22/18 09:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Trichloroethene	U		0.000400	0.00100
(S) Toluene-d8	113			75.0-131
(S) Dibromofluoromethane	79.5			65.0-129
(S) 4-Bromofluorobenzene	94.4			67.0-138

Laboratory Control Sample (LCS)

(LCS) R3352734-1 10/22/18 08:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Trichloroethene	0.125	0.118	94.1	76.0-126	
(S) Toluene-d8			105	75.0-131	
(S) Dibromofluoromethane			94.5	65.0-129	
(S) 4-Bromofluorobenzene			90.6	67.0-138	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3352913-2 10/22/18 15:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
cis-1,2-Dichloroethene	U		0.000690	0.00250
1,2-Dichloropropane	U		0.00127	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Tetrachloroethene	U		0.000700	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
(S) Toluene-d8	99.7			75.0-131
(S) Dibromofluoromethane	114			65.0-129
(S) 4-Bromofluorobenzene	118			67.0-138

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3352913-1 10/22/18 14:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
cis-1,2-Dichloroethene	0.125	0.139	111	73.0-125	
1,2-Dichloropropane	0.125	0.124	99.5	74.0-125	
2-Butanone (MEK)	0.625	0.772	124	30.0-160	
Tetrachloroethene	0.125	0.101	80.9	70.0-136	
1,1,2-Trichloroethane	0.125	0.116	93.0	78.0-123	
(S) Toluene-d8			99.2	75.0-131	
(S) Dibromofluoromethane			115	65.0-129	
(S) 4-Bromofluorobenzene			120	67.0-138	



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, the sample preparation volume or weight values differ from the standard, 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.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
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.
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.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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



Pace National 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.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

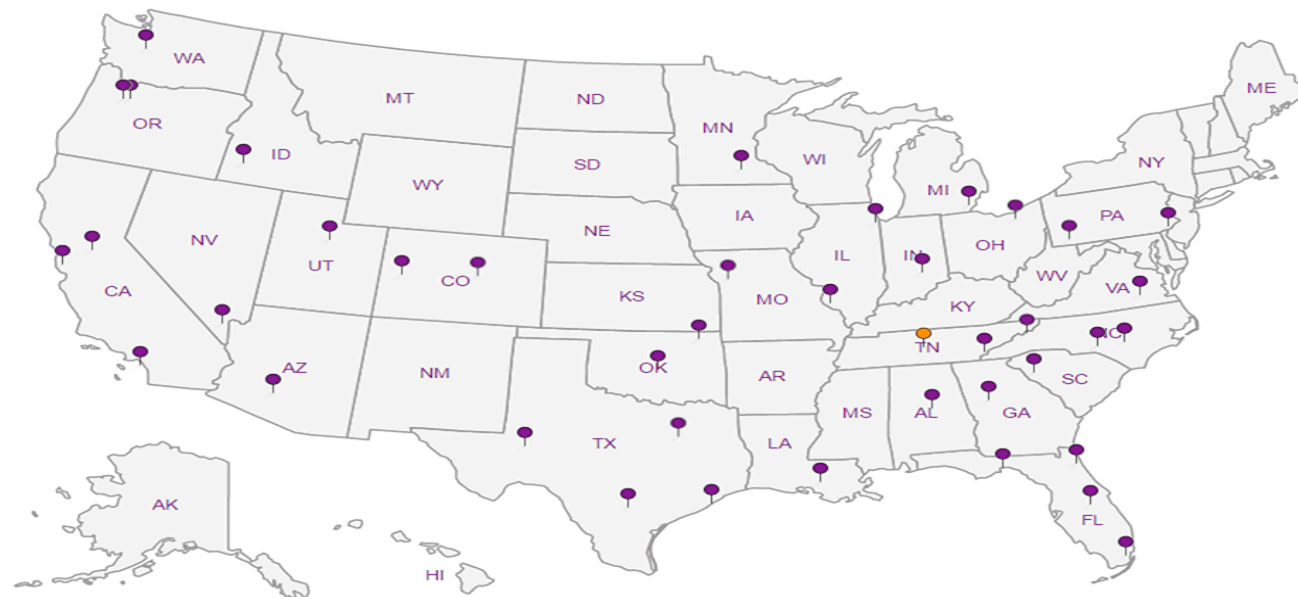
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National 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. Pace National performs all testing at our central laboratory.



PES Environmental, Inc.- WA

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Report to:
Brian O'Neal/Bill Haldeman

Project
Description: American Linen

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

Collected by (print):
Karsten Springstead / Rachel McLaughlin

Collected by (signature):
[Signature]

Immediately
Packed on Ice N ___ Y X

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

Email To: boneal@pesenv.com;
bhaldeman@pesenv.com

City/State
Collected:
Lab Project #
PESENVSWA-ALP

P.O. #
Quote #

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

Date Results Needed

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 4

Pace Analytical
National Center for Testing & Evaluation

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



L# L1034970
F242

Acctnum: PESENVSWA
Template: T141621
Prelogin: P676248
TSR: 110 - Brian Ford
PB:

Shipped Via:
Remarks Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOCs V8260C 40mlAmb/MeOH5ml/Syr	dry weight 2ozClr-NoPres	trip VOCs V8260LLC 40mlAmb-HCl-Bik										
~~B-249-4~~	~~Grab~~	~~SS~~	~~4~~	~~10-15-18~~	~~915~~	~~2~~	~~X~~	~~X~~											
B-249-5		SS	5	10/15/18	920	1	X	X											
B-249-8		SS	8		920		X	X											
B-249-10		SS	10		925														
B-249-15		SS	15		935		X	X											
B-249-17		SS	17		948		X	X											
B-249-20		SS	20		945		X	X											
B-250-2.5		SS	2.5		1000		X	X											
B-250-5		SS	5		1002														
B-250-8		SS	8		1012		X	X											

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

Remarks:

Samples returned via:
___ UPS X FedEx ___ Courier

RAD SCREEN 0.5 MEV/hr

pH ___ Temp ___
Flow ___ Other ___

Tracking # 4196 3258 9731

Relinquished by: (Signature) [Signature]
Date: 10/15/18 Time: 1645
Relinquished by: (Signature)
Date: Time:
Relinquished by: (Signature)
Date: Time:

Received by: (Signature)
Received by: (Signature)
Received for lab by: (Signature) [Signature]
Trip Blank Received: Yes / No
1 HC / MeOH
TBR
Temp: °C 0.9-0.4-0.3 64
Bottles Received: 64
Date: 10/16/18 Time: 845

Sample Receipt Checklist
COC Seal Present/Intact: ___ MP 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
10-114
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 4



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



Report to:
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;
baldeman@pesenv.com

Project
Description: American Linen

City/State
Collected: Seattle, WA

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

Client Project #
1413.001.05

Lab Project #
PESENVSWA-ALP

Collected by (print):

Site/Facility ID #

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Immediately
Packed on Ice: N ☒ Y ☒

Same Day ☒ Five Day
Next Day ☒ 5 Day (Rad Only)
Two Day ☐ 10 Day (Rad Only)
Three Day ☐

Date Results Needed

No.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOCs V8260C 40mlAmb/MeOH5ml/Syr	dry weight 2ozClr-NoPres	trip VOCs V8260LLC 40mlAmb-HCl-Blk	Analysis / Container / Preservative	Chain of Custody
B-250-10	Grab	SS	10	10-15-18	1010	2	X	X			
B-250-13		SS	13		1030	1	X	X			
B-250-15		SS	15		1032	1	X	X			
B-250-18.5		SS	18.5		1045						HOLD
B-250-20		SS	20		1040		X	X			HOLD
B-250-24		SS	24		1120		X	X			
B-250-29		SS	29		1105		X	X			-11 RUSH-Next day TAT
B-251-3	Grab	SS	3	10/15/18	1232		X	X			HOLD
B-251-5		SS	5		1235		X	X			HOLD
B-251-8		SS	8		1245		X	X			HOLD (RM)

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

Remarks:

RAD 300000 0.5 mR/hr

pH Temp

Flow Other

Samples returned via:

UPS FedEx Courier

Tracking #

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: °C Bottles Received:
0.7-4-0.5 7 64

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: 10/16/18 Time: 845

If preservation required by Login: Date/Time

Hold: Conditions
NCF / 01

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

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 4



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



Report to:
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;
bhaldeman@pesenv.com

Project
Description: American Linen

City/State
Collected: Seattle, WA

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

Client Project #
1413.001.05

Lab Project #
PESENVSWA-ALP

Collected by (print):

Karsten Sprungstead/Rachel McLaughlin

Site/Facility ID #

P.O. #

Collected by (signature):

R. T. McLaughlin

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

No.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
B-251-10	Grab	SS	10	12/15/18	1242	2
B-251-15		SS	15		1255	
B-251-20		SS	20		1257	
B-251-25		SS	2.5		1320	
B-252-2.5		SS	2.5		1415	
B-252-5		SS	5		1420	
B-252-10		SS	10		1427	
B-252-8		SS	8		1425	
B-252-15		SS	15		1435	
B-252-20		SS	20		1440	

VOCs V8260C 40mlAmb/MeOH5ml/Syr

dry weight 2ozClr-NoPres

trip VOCs V8260LLC 40mlAmb-HCl-Bik

Remarks Sample # (lab only)

14
15
16
17 RUSH-Next Day TAT
18
HOLD
19
20
21
HOLD

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

Remarks:

RAD SCREEN: 10.5 mR/hr

pH Temp

Flow Other

Samples returned via:

UPS FedEx Courier

Tracking #

Relinquished by: (Signature)

R. T. McLaughlin

Date:

12/15/18

Time:

1645

Received by: (Signature)

Trip Blank Received: Yes/No
HCL/MeOH
TBR

Received by: (Signature)

Temp: °C Bottles Received: 64
0.7-4.0-3.5

Received for lab by: (Signature)

Date: 10/16/18

Time: 845

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

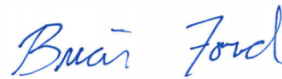
October 25, 2018

PES Environmental, Inc.- WA

Sample Delivery Group: L1035515
Samples Received: 10/17/2018
Project Number: 1413.001.05
Description: American Linen

Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford
Project Manager

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 Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	6
Sr: Sample Results	7
B-250-30 L1035515-01	7
B-254-5 L1035515-02	9
B-254-10 L1035515-03	11
B-254-13.5 L1035515-04	13
B-254-20 L1035515-05	15
B-254-25 L1035515-06	17
B-255-3.5 L1035515-07	19
B-255-8 L1035515-08	21
B-255-15 L1035515-09	23
B-255A-21 L1035515-10	25
B-256-2.5 L1035515-11	27
B-256-5 L1035515-12	29
B-256-10 L1035515-13	31
B-256-15 L1035515-14	33
B-256-18 L1035515-15	35
Qc: Quality Control Summary	37
Total Solids by Method 2540 G-2011	37
Volatile Organic Compounds (GC/MS) by Method 8260C	40
Gl: Glossary of Terms	46
Al: Accreditations & Locations	47
Sc: Sample Chain of Custody	48



SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B-250-30 L1035515-01 Solid

			Collected by SM/RM	Collected date/time 10/16/18 08:25	Received date/time 10/17/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184402	1	10/22/18 11:34	10/22/18 11:48	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183540	1	10/17/18 19:48	10/19/18 14:52	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184696	1	10/17/18 19:48	10/23/18 01:18	DWR

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

B-254-5 L1035515-02 Solid

			Collected by SM/RM	Collected date/time 10/16/18 09:32	Received date/time 10/17/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184402	1	10/22/18 11:34	10/22/18 11:48	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183540	1	10/17/18 19:48	10/19/18 15:10	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184696	80	10/17/18 19:48	10/23/18 05:38	DWR

B-254-10 L1035515-03 Solid

			Collected by SM/RM	Collected date/time 10/16/18 09:50	Received date/time 10/17/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184403	1	10/22/18 10:57	10/22/18 11:24	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183540	1	10/17/18 19:48	10/19/18 15:29	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184696	8	10/17/18 19:48	10/23/18 05:58	DWR

B-254-13.5 L1035515-04 Solid

			Collected by SM/RM	Collected date/time 10/16/18 09:50	Received date/time 10/17/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184403	1	10/22/18 10:57	10/22/18 11:24	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183540	1	10/17/18 19:48	10/19/18 15:48	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184696	400	10/17/18 19:48	10/23/18 06:18	DWR

B-254-20 L1035515-05 Solid

			Collected by SM/RM	Collected date/time 10/16/18 10:00	Received date/time 10/17/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184403	1	10/22/18 10:57	10/22/18 11:24	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183540	1	10/17/18 19:48	10/19/18 16:06	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184696	200	10/17/18 19:48	10/23/18 06:38	DWR

B-254-25 L1035515-06 Solid

			Collected by SM/RM	Collected date/time 10/16/18 10:09	Received date/time 10/17/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184403	1	10/22/18 10:57	10/22/18 11:24	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183540	1	10/17/18 19:48	10/19/18 16:25	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184696	400	10/17/18 19:48	10/23/18 06:58	DWR

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B-255-3.5 L1035515-07 Solid

			Collected by SM/RM	Collected date/time 10/16/18 11:18	Received date/time 10/17/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184403	1	10/22/18 10:57	10/22/18 11:24	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183540	1	10/17/18 19:48	10/19/18 16:43	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184696	1	10/17/18 19:48	10/23/18 01:38	DWR

¹ Cp

² Tc

³ Ss

B-255-8 L1035515-08 Solid

			Collected by SM/RM	Collected date/time 10/16/18 11:23	Received date/time 10/17/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184403	1	10/22/18 10:57	10/22/18 11:24	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183540	1	10/17/18 19:48	10/19/18 17:02	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184696	1	10/17/18 19:48	10/23/18 01:58	DWR

⁴ Cn

⁵ Sr

⁶ Qc

B-255-15 L1035515-09 Solid

			Collected by SM/RM	Collected date/time 10/16/18 11:30	Received date/time 10/17/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184403	1	10/22/18 10:57	10/22/18 11:24	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183540	1	10/17/18 19:48	10/19/18 17:20	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184696	1	10/17/18 19:48	10/23/18 02:18	DWR

⁷ Gl

⁸ Al

⁹ Sc

B-255A-21 L1035515-10 Solid

			Collected by SM/RM	Collected date/time 10/16/18 13:55	Received date/time 10/17/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184403	1	10/22/18 10:57	10/22/18 11:24	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183540	1	10/17/18 19:48	10/19/18 18:07	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184696	40	10/17/18 19:48	10/23/18 07:18	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185916	40	10/17/18 19:48	10/24/18 17:24	BMB

B-256-2.5 L1035515-11 Solid

			Collected by SM/RM	Collected date/time 10/16/18 14:06	Received date/time 10/17/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184403	1	10/22/18 10:57	10/22/18 11:24	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183540	1	10/17/18 19:48	10/19/18 18:25	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184696	1	10/17/18 19:48	10/23/18 02:38	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185916	1	10/17/18 19:48	10/24/18 16:42	BMB

B-256-5 L1035515-12 Solid

			Collected by SM/RM	Collected date/time 10/16/18 14:05	Received date/time 10/17/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184403	1	10/22/18 10:57	10/22/18 11:24	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183540	1	10/17/18 19:48	10/19/18 18:44	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184696	1	10/17/18 19:48	10/23/18 02:58	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185916	1	10/17/18 19:48	10/24/18 17:03	BMB

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B-256-10 L1035515-13 Solid

			Collected by SM/RM	Collected date/time 10/16/18 14:18	Received date/time 10/17/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184404	1	10/22/18 10:40	10/22/18 10:53	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183540	1	10/17/18 19:48	10/19/18 19:02	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184696	1	10/17/18 19:48	10/23/18 03:18	DWR

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

B-256-15 L1035515-14 Solid

			Collected by SM/RM	Collected date/time 10/16/18 14:32	Received date/time 10/17/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184404	1	10/22/18 10:40	10/22/18 10:53	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183540	1	10/17/18 19:48	10/19/18 19:21	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184696	1	10/17/18 19:48	10/23/18 03:38	DWR

B-256-18 L1035515-15 Solid

			Collected by SM/RM	Collected date/time 10/16/18 14:40	Received date/time 10/17/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184404	1	10/22/18 10:40	10/22/18 10:53	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183540	1	10/17/18 19:48	10/19/18 19:39	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184696	1	10/17/18 19:48	10/23/18 03:58	DWR



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, 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
Project Manager

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	91.7		1	10/22/2018 11:48	WG1184402

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0149	0.0273	1	10/23/2018 01:18	WG1184696
Acrylonitrile	U		0.00207	0.0136	1	10/19/2018 14:52	WG1183540
Benzene	U		0.000436	0.00109	1	10/19/2018 14:52	WG1183540
Bromobenzene	U		0.00115	0.0136	1	10/19/2018 14:52	WG1183540
Bromodichloromethane	U		0.000859	0.00273	1	10/19/2018 14:52	WG1183540
Bromochloromethane	U		0.00123	0.00545	1	10/19/2018 14:52	WG1183540
Bromoform	U		0.00652	0.0273	1	10/19/2018 14:52	WG1183540
Bromomethane	U		0.00403	0.0136	1	10/19/2018 14:52	WG1183540
n-Butylbenzene	U		0.00419	0.0136	1	10/19/2018 14:52	WG1183540
sec-Butylbenzene	U		0.00276	0.0136	1	10/19/2018 14:52	WG1183540
tert-Butylbenzene	U		0.00169	0.00545	1	10/19/2018 14:52	WG1183540
Carbon disulfide	U	J0	0.00443	0.0136	1	10/19/2018 14:52	WG1183540
Carbon tetrachloride	U		0.00118	0.00545	1	10/19/2018 14:52	WG1183540
Chlorobenzene	U		0.000625	0.00273	1	10/19/2018 14:52	WG1183540
Chlorodibromomethane	U		0.000491	0.00273	1	10/19/2018 14:52	WG1183540
Chloroethane	U		0.00118	0.00545	1	10/19/2018 14:52	WG1183540
Chloroform	U		0.000453	0.00273	1	10/19/2018 14:52	WG1183540
Chloromethane	U		0.00152	0.0136	1	10/19/2018 14:52	WG1183540
2-Chlorotoluene	U		0.00100	0.00273	1	10/19/2018 14:52	WG1183540
4-Chlorotoluene	U		0.00123	0.00545	1	10/19/2018 14:52	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00556	0.0273	1	10/19/2018 14:52	WG1183540
1,2-Dibromoethane	U		0.000573	0.00273	1	10/19/2018 14:52	WG1183540
Dibromomethane	U		0.00109	0.00545	1	10/19/2018 14:52	WG1183540
1,2-Dichlorobenzene	U		0.00158	0.00545	1	10/19/2018 14:52	WG1183540
1,3-Dichlorobenzene	U		0.00185	0.00545	1	10/19/2018 14:52	WG1183540
1,4-Dichlorobenzene	U		0.00215	0.00545	1	10/19/2018 14:52	WG1183540
Dichlorodifluoromethane	U	J4	0.000892	0.00273	1	10/23/2018 01:18	WG1184696
1,1-Dichloroethane	U		0.000627	0.00273	1	10/19/2018 14:52	WG1183540
1,2-Dichloroethane	U		0.000518	0.00273	1	10/19/2018 14:52	WG1183540
1,1-Dichloroethene	U		0.000545	0.00273	1	10/19/2018 14:52	WG1183540
cis-1,2-Dichloroethene	0.533		0.000752	0.00273	1	10/19/2018 14:52	WG1183540
trans-1,2-Dichloroethene	0.0138		0.00156	0.00545	1	10/19/2018 14:52	WG1183540
1,2-Dichloropropane	U		0.00138	0.00545	1	10/19/2018 14:52	WG1183540
1,1-Dichloropropene	U		0.000763	0.00273	1	10/19/2018 14:52	WG1183540
1,3-Dichloropropane	U		0.00191	0.00545	1	10/19/2018 14:52	WG1183540
cis-1,3-Dichloropropene	U		0.000739	0.00273	1	10/19/2018 14:52	WG1183540
trans-1,3-Dichloropropene	U	J4	0.00167	0.00545	1	10/19/2018 14:52	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00153	0.00545	1	10/19/2018 14:52	WG1183540
2,2-Dichloropropane	U		0.000865	0.00273	1	10/19/2018 14:52	WG1183540
Di-isopropyl ether	U		0.000382	0.00109	1	10/19/2018 14:52	WG1183540
Ethylbenzene	0.000590	J J0	0.000578	0.00273	1	10/19/2018 14:52	WG1183540
Hexachloro-1,3-butadiene	U		0.0138	0.0273	1	10/19/2018 14:52	WG1183540
2-Hexanone	U		0.0109	0.0273	1	10/19/2018 14:52	WG1183540
n-Hexane	0.00621	J0 J4	0.00116	0.00545	1	10/19/2018 14:52	WG1183540
Iodomethane	U		0.00660	0.0136	1	10/19/2018 14:52	WG1183540
Isopropylbenzene	U		0.000941	0.00273	1	10/19/2018 14:52	WG1183540
p-Isopropyltoluene	U		0.00254	0.00545	1	10/19/2018 14:52	WG1183540
2-Butanone (MEK)	0.0327	B J4	0.0136	0.0273	1	10/19/2018 14:52	WG1183540
Methylene Chloride	U		0.00724	0.0273	1	10/19/2018 14:52	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	10/19/2018 14:52	WG1183540

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/16/18 08:25

L1035515

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000322	0.00109	1	10/19/2018 14:52	WG1183540
Naphthalene	U		0.00340	0.0136	1	10/19/2018 14:52	WG1183540
n-Propylbenzene	U		0.00129	0.00545	1	10/19/2018 14:52	WG1183540
Styrene	U		0.00298	0.0136	1	10/19/2018 14:52	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000545	0.00273	1	10/19/2018 14:52	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000425	0.00273	1	10/23/2018 01:18	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000736	0.00273	1	10/23/2018 01:18	WG1184696
Tetrachloroethene	0.288		0.000763	0.00273	1	10/19/2018 14:52	WG1183540
Toluene	0.00259	U	0.00136	0.00545	1	10/19/2018 14:52	WG1183540
1,2,3-Trichlorobenzene	U		0.000682	0.00273	1	10/23/2018 01:18	WG1184696
1,2,4-Trichlorobenzene	U		0.00526	0.0136	1	10/19/2018 14:52	WG1183540
1,1,1-Trichloroethane	U		0.000300	0.00273	1	10/19/2018 14:52	WG1183540
1,1,2-Trichloroethane	U		0.000963	0.00273	1	10/19/2018 14:52	WG1183540
Trichloroethene	0.0519		0.000436	0.00109	1	10/19/2018 14:52	WG1183540
Trichlorofluoromethane	U		0.000545	0.00273	1	10/19/2018 14:52	WG1183540
1,2,3-Trichloropropane	U		0.00556	0.0136	1	10/19/2018 14:52	WG1183540
1,2,4-Trimethylbenzene	0.00182	U	0.00126	0.00545	1	10/19/2018 14:52	WG1183540
1,2,3-Trimethylbenzene	U		0.00125	0.00545	1	10/19/2018 14:52	WG1183540
1,3,5-Trimethylbenzene	U		0.00118	0.00545	1	10/19/2018 14:52	WG1183540
Vinyl acetate	U		0.00384	0.0136	1	10/19/2018 14:52	WG1183540
Vinyl chloride	0.358		0.000745	0.00273	1	10/23/2018 01:18	WG1184696
Xylenes, Total	U		0.00521	0.00709	1	10/19/2018 14:52	WG1183540
(S) Toluene-d8	93.2			75.0-131		10/19/2018 14:52	WG1183540
(S) Toluene-d8	88.5			75.0-131		10/23/2018 01:18	WG1184696
(S) Dibromofluoromethane	95.4			65.0-129		10/19/2018 14:52	WG1183540
(S) Dibromofluoromethane	116			65.0-129		10/23/2018 01:18	WG1184696
(S) 4-Bromofluorobenzene	88.7			67.0-138		10/19/2018 14:52	WG1183540
(S) 4-Bromofluorobenzene	120			67.0-138		10/23/2018 01:18	WG1184696

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	83.5		1	10/22/2018 11:48	WG1184402

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		1.32	2.40	80	10/23/2018 05:38	WG1184696
Acrylonitrile	U		0.00228	0.0150	1	10/19/2018 15:10	WG1183540
Benzene	U		0.000479	0.00120	1	10/19/2018 15:10	WG1183540
Bromobenzene	U		0.00126	0.0150	1	10/19/2018 15:10	WG1183540
Bromodichloromethane	U		0.000944	0.00299	1	10/19/2018 15:10	WG1183540
Bromochloromethane	U		0.00135	0.00599	1	10/19/2018 15:10	WG1183540
Bromoform	U		0.00716	0.0299	1	10/19/2018 15:10	WG1183540
Bromomethane	U		0.00443	0.0150	1	10/19/2018 15:10	WG1183540
n-Butylbenzene	U		0.00460	0.0150	1	10/19/2018 15:10	WG1183540
sec-Butylbenzene	U		0.00303	0.0150	1	10/19/2018 15:10	WG1183540
tert-Butylbenzene	U		0.00186	0.00599	1	10/19/2018 15:10	WG1183540
Carbon disulfide	U	J0	0.00486	0.0150	1	10/19/2018 15:10	WG1183540
Carbon tetrachloride	U		0.00129	0.00599	1	10/19/2018 15:10	WG1183540
Chlorobenzene	U		0.000686	0.00299	1	10/19/2018 15:10	WG1183540
Chlorodibromomethane	U		0.000539	0.00299	1	10/19/2018 15:10	WG1183540
Chloroethane	U		0.00129	0.00599	1	10/19/2018 15:10	WG1183540
Chloroform	U		0.000497	0.00299	1	10/19/2018 15:10	WG1183540
Chloromethane	U		0.00166	0.0150	1	10/19/2018 15:10	WG1183540
2-Chlorotoluene	U		0.00110	0.00299	1	10/19/2018 15:10	WG1183540
4-Chlorotoluene	U		0.00135	0.00599	1	10/19/2018 15:10	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00611	0.0299	1	10/19/2018 15:10	WG1183540
1,2-Dibromoethane	U		0.000629	0.00299	1	10/19/2018 15:10	WG1183540
Dibromomethane	U		0.00120	0.00599	1	10/19/2018 15:10	WG1183540
1,2-Dichlorobenzene	U		0.00174	0.00599	1	10/19/2018 15:10	WG1183540
1,3-Dichlorobenzene	U		0.00204	0.00599	1	10/19/2018 15:10	WG1183540
1,4-Dichlorobenzene	U		0.00236	0.00599	1	10/19/2018 15:10	WG1183540
Dichlorodifluoromethane	U	J4	0.0783	0.240	80	10/23/2018 05:38	WG1184696
1,1-Dichloroethane	U		0.000689	0.00299	1	10/19/2018 15:10	WG1183540
1,2-Dichloroethane	U		0.000569	0.00299	1	10/19/2018 15:10	WG1183540
1,1-Dichloroethene	U		0.000599	0.00299	1	10/19/2018 15:10	WG1183540
cis-1,2-Dichloroethene	0.0425		0.000826	0.00299	1	10/19/2018 15:10	WG1183540
trans-1,2-Dichloroethene	U		0.00171	0.00599	1	10/19/2018 15:10	WG1183540
1,2-Dichloropropane	U		0.00152	0.00599	1	10/19/2018 15:10	WG1183540
1,1-Dichloropropene	U		0.000838	0.00299	1	10/19/2018 15:10	WG1183540
1,3-Dichloropropane	U		0.00210	0.00599	1	10/19/2018 15:10	WG1183540
cis-1,3-Dichloropropene	U		0.000812	0.00299	1	10/19/2018 15:10	WG1183540
trans-1,3-Dichloropropene	U	J4	0.00183	0.00599	1	10/19/2018 15:10	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00168	0.00599	1	10/19/2018 15:10	WG1183540
2,2-Dichloropropane	U		0.000950	0.00299	1	10/19/2018 15:10	WG1183540
Di-isopropyl ether	U		0.000419	0.00120	1	10/19/2018 15:10	WG1183540
Ethylbenzene	U	J0	0.000635	0.00299	1	10/19/2018 15:10	WG1183540
Hexachloro-1,3-butadiene	U		0.0152	0.0299	1	10/19/2018 15:10	WG1183540
2-Hexanone	U		0.0120	0.0299	1	10/19/2018 15:10	WG1183540
n-Hexane	U	J0 J4	0.00127	0.00599	1	10/19/2018 15:10	WG1183540
Iodomethane	U		0.00724	0.0150	1	10/19/2018 15:10	WG1183540
Isopropylbenzene	U		0.00103	0.00299	1	10/19/2018 15:10	WG1183540
p-Isopropyltoluene	U		0.00279	0.00599	1	10/19/2018 15:10	WG1183540
2-Butanone (MEK)	0.0513	B J4	0.0150	0.0299	1	10/19/2018 15:10	WG1183540
Methylene Chloride	U		0.00795	0.0299	1	10/19/2018 15:10	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0299	1	10/19/2018 15:10	WG1183540

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/16/18 09:32

L1035515

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000353	0.00120	1	10/19/2018 15:10	WG1183540
Naphthalene	U		0.00374	0.0150	1	10/19/2018 15:10	WG1183540
n-Propylbenzene	U		0.00141	0.00599	1	10/19/2018 15:10	WG1183540
Styrene	U		0.00327	0.0150	1	10/19/2018 15:10	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000599	0.00299	1	10/19/2018 15:10	WG1183540
1,1,2,2-Tetrachloroethane	U		0.0374	0.240	80	10/23/2018 05:38	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.0647	0.240	80	10/23/2018 05:38	WG1184696
Tetrachloroethene	9.35		0.0671	0.240	80	10/23/2018 05:38	WG1184696
Toluene	U		0.00150	0.00599	1	10/19/2018 15:10	WG1183540
1,2,3-Trichlorobenzene	U		0.0599	0.240	80	10/23/2018 05:38	WG1184696
1,2,4-Trichlorobenzene	U		0.00577	0.0150	1	10/19/2018 15:10	WG1183540
1,1,1-Trichloroethane	U		0.000329	0.00299	1	10/19/2018 15:10	WG1183540
1,1,2-Trichloroethane	U		0.00106	0.00299	1	10/19/2018 15:10	WG1183540
Trichloroethene	0.0662		0.000479	0.00120	1	10/19/2018 15:10	WG1183540
Trichlorofluoromethane	U		0.000599	0.00299	1	10/19/2018 15:10	WG1183540
1,2,3-Trichloropropane	U		0.00611	0.0150	1	10/19/2018 15:10	WG1183540
1,2,4-Trimethylbenzene	U		0.00139	0.00599	1	10/19/2018 15:10	WG1183540
1,2,3-Trimethylbenzene	U		0.00138	0.00599	1	10/19/2018 15:10	WG1183540
1,3,5-Trimethylbenzene	U		0.00129	0.00599	1	10/19/2018 15:10	WG1183540
Vinyl acetate	U		0.00422	0.0150	1	10/19/2018 15:10	WG1183540
Vinyl chloride	U		0.0654	0.240	80	10/23/2018 05:38	WG1184696
Xylenes, Total	U		0.00572	0.00778	1	10/19/2018 15:10	WG1183540
(S) Toluene-d8	110			75.0-131		10/19/2018 15:10	WG1183540
(S) Toluene-d8	98.3			75.0-131		10/23/2018 05:38	WG1184696
(S) Dibromofluoromethane	93.6			65.0-129		10/19/2018 15:10	WG1183540
(S) Dibromofluoromethane	116			65.0-129		10/23/2018 05:38	WG1184696
(S) 4-Bromofluorobenzene	88.9			67.0-138		10/19/2018 15:10	WG1183540
(S) 4-Bromofluorobenzene	121			67.0-138		10/23/2018 05:38	WG1184696

Sample Narrative:

L1035515-02 WG1184696, WG1183540: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1035515-02 WG1184696, WG1183540: Not all compounds reportable from lower dilution.

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	88.1		1	10/22/2018 11:24	WG1184403

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.125	0.227	8	10/23/2018 05:58	WG1184696
Acrylonitrile	U		0.00216	0.0142	1	10/19/2018 15:29	WG1183540
Benzene	U		0.000454	0.00114	1	10/19/2018 15:29	WG1183540
Bromobenzene	U		0.00119	0.0142	1	10/19/2018 15:29	WG1183540
Bromodichloromethane	U		0.000895	0.00284	1	10/19/2018 15:29	WG1183540
Bromochloromethane	U		0.00128	0.00568	1	10/19/2018 15:29	WG1183540
Bromoform	U		0.00679	0.0284	1	10/19/2018 15:29	WG1183540
Bromomethane	U		0.00420	0.0142	1	10/19/2018 15:29	WG1183540
n-Butylbenzene	U		0.00436	0.0142	1	10/19/2018 15:29	WG1183540
sec-Butylbenzene	U		0.00287	0.0142	1	10/19/2018 15:29	WG1183540
tert-Butylbenzene	U		0.00176	0.00568	1	10/19/2018 15:29	WG1183540
Carbon disulfide	U	J0	0.00461	0.0142	1	10/19/2018 15:29	WG1183540
Carbon tetrachloride	U		0.00123	0.00568	1	10/19/2018 15:29	WG1183540
Chlorobenzene	U		0.000651	0.00284	1	10/19/2018 15:29	WG1183540
Chlorodibromomethane	U		0.000511	0.00284	1	10/19/2018 15:29	WG1183540
Chloroethane	U		0.00123	0.00568	1	10/19/2018 15:29	WG1183540
Chloroform	U		0.000471	0.00284	1	10/19/2018 15:29	WG1183540
Chloromethane	U		0.00158	0.0142	1	10/19/2018 15:29	WG1183540
2-Chlorotoluene	U		0.00104	0.00284	1	10/19/2018 15:29	WG1183540
4-Chlorotoluene	U		0.00128	0.00568	1	10/19/2018 15:29	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00579	0.0284	1	10/19/2018 15:29	WG1183540
1,2-Dibromoethane	U		0.000596	0.00284	1	10/19/2018 15:29	WG1183540
Dibromomethane	U		0.00114	0.00568	1	10/19/2018 15:29	WG1183540
1,2-Dichlorobenzene	U		0.00165	0.00568	1	10/19/2018 15:29	WG1183540
1,3-Dichlorobenzene	U		0.00193	0.00568	1	10/19/2018 15:29	WG1183540
1,4-Dichlorobenzene	U		0.00224	0.00568	1	10/19/2018 15:29	WG1183540
Dichlorodifluoromethane	U	J4	0.00743	0.0227	8	10/23/2018 05:58	WG1184696
1,1-Dichloroethane	U		0.000653	0.00284	1	10/19/2018 15:29	WG1183540
1,2-Dichloroethane	U		0.000539	0.00284	1	10/19/2018 15:29	WG1183540
1,1-Dichloroethene	U		0.000568	0.00284	1	10/19/2018 15:29	WG1183540
cis-1,2-Dichloroethene	0.0251		0.000784	0.00284	1	10/19/2018 15:29	WG1183540
trans-1,2-Dichloroethene	U		0.00162	0.00568	1	10/19/2018 15:29	WG1183540
1,2-Dichloropropane	U		0.00144	0.00568	1	10/19/2018 15:29	WG1183540
1,1-Dichloropropene	U		0.000795	0.00284	1	10/19/2018 15:29	WG1183540
1,3-Dichloropropane	U		0.00199	0.00568	1	10/19/2018 15:29	WG1183540
cis-1,3-Dichloropropene	U		0.000770	0.00284	1	10/19/2018 15:29	WG1183540
trans-1,3-Dichloropropene	U	J4	0.00174	0.00568	1	10/19/2018 15:29	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00159	0.00568	1	10/19/2018 15:29	WG1183540
2,2-Dichloropropane	U		0.000900	0.00284	1	10/19/2018 15:29	WG1183540
Di-isopropyl ether	U		0.000397	0.00114	1	10/19/2018 15:29	WG1183540
Ethylbenzene	U	J0	0.000602	0.00284	1	10/19/2018 15:29	WG1183540
Hexachloro-1,3-butadiene	U		0.0144	0.0284	1	10/19/2018 15:29	WG1183540
2-Hexanone	U		0.0114	0.0284	1	10/19/2018 15:29	WG1183540
n-Hexane	U	J0 J4	0.00120	0.00568	1	10/19/2018 15:29	WG1183540
Iodomethane	U		0.00687	0.0142	1	10/19/2018 15:29	WG1183540
Isopropylbenzene	U		0.000980	0.00284	1	10/19/2018 15:29	WG1183540
p-Isopropyltoluene	U		0.00265	0.00568	1	10/19/2018 15:29	WG1183540
2-Butanone (MEK)	0.0249	B J J4	0.0142	0.0284	1	10/19/2018 15:29	WG1183540
Methylene Chloride	U		0.00754	0.0284	1	10/19/2018 15:29	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0284	1	10/19/2018 15:29	WG1183540





Collected date/time: 10/16/18 09:50

L1035515

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000335	0.00114	1	10/19/2018 15:29	WG1183540
Naphthalene	U		0.00354	0.0142	1	10/19/2018 15:29	WG1183540
n-Propylbenzene	U		0.00134	0.00568	1	10/19/2018 15:29	WG1183540
Styrene	U		0.00310	0.0142	1	10/19/2018 15:29	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000568	0.00284	1	10/19/2018 15:29	WG1183540
1,1,2,2-Tetrachloroethane	U		0.00354	0.0227	8	10/23/2018 05:58	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.00613	0.0227	8	10/23/2018 05:58	WG1184696
Tetrachloroethene	3.09		0.00636	0.0227	8	10/23/2018 05:58	WG1184696
Toluene	U		0.00142	0.00568	1	10/19/2018 15:29	WG1183540
1,2,3-Trichlorobenzene	U		0.00568	0.0227	8	10/23/2018 05:58	WG1184696
1,2,4-Trichlorobenzene	U		0.00547	0.0142	1	10/19/2018 15:29	WG1183540
1,1,1-Trichloroethane	U		0.000312	0.00284	1	10/19/2018 15:29	WG1183540
1,1,2-Trichloroethane	U		0.00100	0.00284	1	10/19/2018 15:29	WG1183540
Trichloroethene	0.0173		0.000454	0.00114	1	10/19/2018 15:29	WG1183540
Trichlorofluoromethane	U		0.000568	0.00284	1	10/19/2018 15:29	WG1183540
1,2,3-Trichloropropane	U		0.00579	0.0142	1	10/19/2018 15:29	WG1183540
1,2,4-Trimethylbenzene	U		0.00132	0.00568	1	10/19/2018 15:29	WG1183540
1,2,3-Trimethylbenzene	U		0.00131	0.00568	1	10/19/2018 15:29	WG1183540
1,3,5-Trimethylbenzene	U		0.00123	0.00568	1	10/19/2018 15:29	WG1183540
Vinyl acetate	U		0.00400	0.0142	1	10/19/2018 15:29	WG1183540
Vinyl chloride	0.0111	J	0.00620	0.0227	8	10/23/2018 05:58	WG1184696
Xylenes, Total	U		0.00543	0.00738	1	10/19/2018 15:29	WG1183540
(S) Toluene-d8	104			75.0-131		10/19/2018 15:29	WG1183540
(S) Toluene-d8	98.8			75.0-131		10/23/2018 05:58	WG1184696
(S) Dibromofluoromethane	95.0			65.0-129		10/19/2018 15:29	WG1183540
(S) Dibromofluoromethane	118			65.0-129		10/23/2018 05:58	WG1184696
(S) 4-Bromofluorobenzene	89.8			67.0-138		10/19/2018 15:29	WG1183540
(S) 4-Bromofluorobenzene	122			67.0-138		10/23/2018 05:58	WG1184696

Sample Narrative:

L1035515-03 WG1184696, WG1183540: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1035515-03 WG1184696, WG1183540: Not all compounds reportable from lower dilution.

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

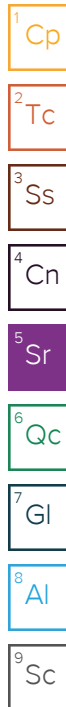


Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.3		1	10/22/2018 11:24	WG1184403

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		6.43	11.7	400	10/23/2018 06:18	WG1184696
Acrylonitrile	U		0.00223	0.0147	1	10/19/2018 15:48	WG1183540
Benzene	U		0.000469	0.00117	1	10/19/2018 15:48	WG1183540
Bromobenzene	U		0.00123	0.0147	1	10/19/2018 15:48	WG1183540
Bromodichloromethane	U		0.000924	0.00293	1	10/19/2018 15:48	WG1183540
Bromochloromethane	U		0.00133	0.00586	1	10/19/2018 15:48	WG1183540
Bromoform	U		0.00701	0.0293	1	10/19/2018 15:48	WG1183540
Bromomethane	U		0.00434	0.0147	1	10/19/2018 15:48	WG1183540
n-Butylbenzene	U		0.00450	0.0147	1	10/19/2018 15:48	WG1183540
sec-Butylbenzene	U		0.00297	0.0147	1	10/19/2018 15:48	WG1183540
tert-Butylbenzene	U		0.00182	0.00586	1	10/19/2018 15:48	WG1183540
Carbon disulfide	U	J0	0.00476	0.0147	1	10/19/2018 15:48	WG1183540
Carbon tetrachloride	U		0.00127	0.00586	1	10/19/2018 15:48	WG1183540
Chlorobenzene	U		0.000672	0.00293	1	10/19/2018 15:48	WG1183540
Chlorodibromomethane	U		0.000528	0.00293	1	10/19/2018 15:48	WG1183540
Chloroethane	U		0.00127	0.00586	1	10/19/2018 15:48	WG1183540
Chloroform	U		0.000487	0.00293	1	10/19/2018 15:48	WG1183540
Chloromethane	U		0.00163	0.0147	1	10/19/2018 15:48	WG1183540
2-Chlorotoluene	U		0.00108	0.00293	1	10/19/2018 15:48	WG1183540
4-Chlorotoluene	U		0.00133	0.00586	1	10/19/2018 15:48	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00598	0.0293	1	10/19/2018 15:48	WG1183540
1,2-Dibromoethane	U		0.000616	0.00293	1	10/19/2018 15:48	WG1183540
Dibromomethane	U		0.00117	0.00586	1	10/19/2018 15:48	WG1183540
1,2-Dichlorobenzene	U		0.00170	0.00586	1	10/19/2018 15:48	WG1183540
1,3-Dichlorobenzene	U		0.00199	0.00586	1	10/19/2018 15:48	WG1183540
1,4-Dichlorobenzene	U		0.00231	0.00586	1	10/19/2018 15:48	WG1183540
Dichlorodifluoromethane	U	J4	0.383	1.17	400	10/23/2018 06:18	WG1184696
1,1-Dichloroethane	U		0.000674	0.00293	1	10/19/2018 15:48	WG1183540
1,2-Dichloroethane	U		0.000557	0.00293	1	10/19/2018 15:48	WG1183540
1,1-Dichloroethene	U		0.000586	0.00293	1	10/19/2018 15:48	WG1183540
cis-1,2-Dichloroethene	0.366		0.000809	0.00293	1	10/19/2018 15:48	WG1183540
trans-1,2-Dichloroethene	0.00740		0.00168	0.00586	1	10/19/2018 15:48	WG1183540
1,2-Dichloropropane	U		0.00149	0.00586	1	10/19/2018 15:48	WG1183540
1,1-Dichloropropene	U		0.000821	0.00293	1	10/19/2018 15:48	WG1183540
1,3-Dichloropropane	U		0.00205	0.00586	1	10/19/2018 15:48	WG1183540
cis-1,3-Dichloropropene	U		0.000795	0.00293	1	10/19/2018 15:48	WG1183540
trans-1,3-Dichloropropene	U	J4	0.00179	0.00586	1	10/19/2018 15:48	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00164	0.00586	1	10/19/2018 15:48	WG1183540
2,2-Dichloropropane	U		0.000930	0.00293	1	10/19/2018 15:48	WG1183540
Di-isopropyl ether	U		0.000410	0.00117	1	10/19/2018 15:48	WG1183540
Ethylbenzene	U	J0	0.000622	0.00293	1	10/19/2018 15:48	WG1183540
Hexachloro-1,3-butadiene	U		0.0149	0.0293	1	10/19/2018 15:48	WG1183540
2-Hexanone	U		0.0117	0.0293	1	10/19/2018 15:48	WG1183540
n-Hexane	0.00289	J JO J4	0.00124	0.00586	1	10/19/2018 15:48	WG1183540
Iodomethane	U		0.00709	0.0147	1	10/19/2018 15:48	WG1183540
Isopropylbenzene	U		0.00101	0.00293	1	10/19/2018 15:48	WG1183540
p-Isopropyltoluene	U		0.00273	0.00586	1	10/19/2018 15:48	WG1183540
2-Butanone (MEK)	0.0321	B J4	0.0147	0.0293	1	10/19/2018 15:48	WG1183540
Methylene Chloride	U		0.00779	0.0293	1	10/19/2018 15:48	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0293	1	10/19/2018 15:48	WG1183540





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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000346	0.00117	1	10/19/2018 15:48	WG1183540
Naphthalene	U		0.00366	0.0147	1	10/19/2018 15:48	WG1183540
n-Propylbenzene	U		0.00138	0.00586	1	10/19/2018 15:48	WG1183540
Styrene	U		0.00320	0.0147	1	10/19/2018 15:48	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000586	0.00293	1	10/19/2018 15:48	WG1183540
1,1,2,2-Tetrachloroethane	U		0.183	1.17	400	10/23/2018 06:18	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.317	1.17	400	10/23/2018 06:18	WG1184696
Tetrachloroethene	42.2		0.328	1.17	400	10/23/2018 06:18	WG1184696
Toluene	0.00152	L	0.00147	0.00586	1	10/19/2018 15:48	WG1183540
1,2,3-Trichlorobenzene	U		0.293	1.17	400	10/23/2018 06:18	WG1184696
1,2,4-Trichlorobenzene	U		0.00565	0.0147	1	10/19/2018 15:48	WG1183540
1,1,1-Trichloroethane	U		0.000322	0.00293	1	10/19/2018 15:48	WG1183540
1,1,2-Trichloroethane	U		0.00104	0.00293	1	10/19/2018 15:48	WG1183540
Trichloroethene	0.353		0.000469	0.00117	1	10/19/2018 15:48	WG1183540
Trichlorofluoromethane	U		0.000586	0.00293	1	10/19/2018 15:48	WG1183540
1,2,3-Trichloropropane	U		0.00598	0.0147	1	10/19/2018 15:48	WG1183540
1,2,4-Trimethylbenzene	0.00657		0.00136	0.00586	1	10/19/2018 15:48	WG1183540
1,2,3-Trimethylbenzene	0.00223	L	0.00135	0.00586	1	10/19/2018 15:48	WG1183540
1,3,5-Trimethylbenzene	0.00219	L	0.00127	0.00586	1	10/19/2018 15:48	WG1183540
Vinyl acetate	U		0.00413	0.0147	1	10/19/2018 15:48	WG1183540
Vinyl chloride	U		0.320	1.17	400	10/23/2018 06:18	WG1184696
Xylenes, Total	U		0.00561	0.00762	1	10/19/2018 15:48	WG1183540
(S) Toluene-d8	112			75.0-131		10/19/2018 15:48	WG1183540
(S) Toluene-d8	98.6			75.0-131		10/23/2018 06:18	WG1184696
(S) Dibromofluoromethane	93.1			65.0-129		10/19/2018 15:48	WG1183540
(S) Dibromofluoromethane	118			65.0-129		10/23/2018 06:18	WG1184696
(S) 4-Bromofluorobenzene	88.0			67.0-138		10/19/2018 15:48	WG1183540
(S) 4-Bromofluorobenzene	125			67.0-138		10/23/2018 06:18	WG1184696

Sample Narrative:

L1035515-04 WG1184696, WG1183540: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1035515-04 WG1184696, WG1183540: Not all compounds reportable from lower dilution.

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	92.9		1	10/22/2018 11:24	WG1184403

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		2.95	5.38	200	10/23/2018 06:38	WG1184696
Acrylonitrile	U		0.00204	0.0134	1	10/19/2018 16:06	WG1183540
Benzene	U		0.000430	0.00108	1	10/19/2018 16:06	WG1183540
Bromobenzene	U		0.00113	0.0134	1	10/19/2018 16:06	WG1183540
Bromodichloromethane	U		0.000848	0.00269	1	10/19/2018 16:06	WG1183540
Bromochloromethane	U		0.00122	0.00538	1	10/19/2018 16:06	WG1183540
Bromoform	U		0.00643	0.0269	1	10/19/2018 16:06	WG1183540
Bromomethane	U		0.00398	0.0134	1	10/19/2018 16:06	WG1183540
n-Butylbenzene	U		0.00413	0.0134	1	10/19/2018 16:06	WG1183540
sec-Butylbenzene	U		0.00272	0.0134	1	10/19/2018 16:06	WG1183540
tert-Butylbenzene	U		0.00167	0.00538	1	10/19/2018 16:06	WG1183540
Carbon disulfide	U	J0	0.00437	0.0134	1	10/19/2018 16:06	WG1183540
Carbon tetrachloride	U		0.00116	0.00538	1	10/19/2018 16:06	WG1183540
Chlorobenzene	U		0.000616	0.00269	1	10/19/2018 16:06	WG1183540
Chlorodibromomethane	U		0.000484	0.00269	1	10/19/2018 16:06	WG1183540
Chloroethane	U		0.00116	0.00538	1	10/19/2018 16:06	WG1183540
Chloroform	U		0.000447	0.00269	1	10/19/2018 16:06	WG1183540
Chloromethane	U		0.00150	0.0134	1	10/19/2018 16:06	WG1183540
2-Chlorotoluene	U		0.000990	0.00269	1	10/19/2018 16:06	WG1183540
4-Chlorotoluene	U		0.00122	0.00538	1	10/19/2018 16:06	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00549	0.0269	1	10/19/2018 16:06	WG1183540
1,2-Dibromoethane	U		0.000565	0.00269	1	10/19/2018 16:06	WG1183540
Dibromomethane	U		0.00108	0.00538	1	10/19/2018 16:06	WG1183540
1,2-Dichlorobenzene	U		0.00156	0.00538	1	10/19/2018 16:06	WG1183540
1,3-Dichlorobenzene	U		0.00183	0.00538	1	10/19/2018 16:06	WG1183540
1,4-Dichlorobenzene	U		0.00212	0.00538	1	10/19/2018 16:06	WG1183540
Dichlorodifluoromethane	U	J4	0.176	0.538	200	10/23/2018 06:38	WG1184696
1,1-Dichloroethane	U		0.000619	0.00269	1	10/19/2018 16:06	WG1183540
1,2-Dichloroethane	U		0.000511	0.00269	1	10/19/2018 16:06	WG1183540
1,1-Dichloroethene	U		0.000538	0.00269	1	10/19/2018 16:06	WG1183540
cis-1,2-Dichloroethene	0.182		0.000742	0.00269	1	10/19/2018 16:06	WG1183540
trans-1,2-Dichloroethene	0.00222	J	0.00154	0.00538	1	10/19/2018 16:06	WG1183540
1,2-Dichloropropane	U		0.00137	0.00538	1	10/19/2018 16:06	WG1183540
1,1-Dichloropropene	U		0.000753	0.00269	1	10/19/2018 16:06	WG1183540
1,3-Dichloropropane	U		0.00188	0.00538	1	10/19/2018 16:06	WG1183540
cis-1,3-Dichloropropene	U		0.000729	0.00269	1	10/19/2018 16:06	WG1183540
trans-1,3-Dichloropropene	U	J4	0.00165	0.00538	1	10/19/2018 16:06	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00151	0.00538	1	10/19/2018 16:06	WG1183540
2,2-Dichloropropane	U		0.000853	0.00269	1	10/19/2018 16:06	WG1183540
Di-isopropyl ether	U		0.000377	0.00108	1	10/19/2018 16:06	WG1183540
Ethylbenzene	U	J0	0.000570	0.00269	1	10/19/2018 16:06	WG1183540
Hexachloro-1,3-butadiene	U		0.0137	0.0269	1	10/19/2018 16:06	WG1183540
2-Hexanone	U		0.0108	0.0269	1	10/19/2018 16:06	WG1183540
n-Hexane	0.00515	J J0 J4	0.00114	0.00538	1	10/19/2018 16:06	WG1183540
Iodomethane	U		0.00651	0.0134	1	10/19/2018 16:06	WG1183540
Isopropylbenzene	U		0.000929	0.00269	1	10/19/2018 16:06	WG1183540
p-Isopropyltoluene	U		0.00251	0.00538	1	10/19/2018 16:06	WG1183540
2-Butanone (MEK)	0.0314	B J4	0.0134	0.0269	1	10/19/2018 16:06	WG1183540
Methylene Chloride	U		0.00714	0.0269	1	10/19/2018 16:06	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0269	1	10/19/2018 16:06	WG1183540

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/16/18 10:00

L1035515

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000317	0.00108	1	10/19/2018 16:06	WG1183540
Naphthalene	U		0.00336	0.0134	1	10/19/2018 16:06	WG1183540
n-Propylbenzene	U		0.00127	0.00538	1	10/19/2018 16:06	WG1183540
Styrene	U		0.00294	0.0134	1	10/19/2018 16:06	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000538	0.00269	1	10/19/2018 16:06	WG1183540
1,1,2,2-Tetrachloroethane	U		0.0839	0.538	200	10/23/2018 06:38	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.145	0.538	200	10/23/2018 06:38	WG1184696
Tetrachloroethene	28.0		0.151	0.538	200	10/23/2018 06:38	WG1184696
Toluene	U		0.00134	0.00538	1	10/19/2018 16:06	WG1183540
1,2,3-Trichlorobenzene	U		0.134	0.538	200	10/23/2018 06:38	WG1184696
1,2,4-Trichlorobenzene	U		0.00519	0.0134	1	10/19/2018 16:06	WG1183540
1,1,1-Trichloroethane	U		0.000296	0.00269	1	10/19/2018 16:06	WG1183540
1,1,2-Trichloroethane	U		0.000950	0.00269	1	10/19/2018 16:06	WG1183540
Trichloroethene	0.228		0.000430	0.00108	1	10/19/2018 16:06	WG1183540
Trichlorofluoromethane	U		0.000538	0.00269	1	10/19/2018 16:06	WG1183540
1,2,3-Trichloropropane	U		0.00549	0.0134	1	10/19/2018 16:06	WG1183540
1,2,4-Trimethylbenzene	0.00341	L	0.00125	0.00538	1	10/19/2018 16:06	WG1183540
1,2,3-Trimethylbenzene	0.00134	L	0.00124	0.00538	1	10/19/2018 16:06	WG1183540
1,3,5-Trimethylbenzene	0.00120	L	0.00116	0.00538	1	10/19/2018 16:06	WG1183540
Vinyl acetate	U		0.00379	0.0134	1	10/19/2018 16:06	WG1183540
Vinyl chloride	U		0.147	0.538	200	10/23/2018 06:38	WG1184696
Xylenes, Total	U		0.00514	0.00699	1	10/19/2018 16:06	WG1183540
(S) Toluene-d8	111			75.0-131		10/19/2018 16:06	WG1183540
(S) Toluene-d8	98.2			75.0-131		10/23/2018 06:38	WG1184696
(S) Dibromofluoromethane	93.9			65.0-129		10/19/2018 16:06	WG1183540
(S) Dibromofluoromethane	117			65.0-129		10/23/2018 06:38	WG1184696
(S) 4-Bromofluorobenzene	88.1			67.0-138		10/19/2018 16:06	WG1183540
(S) 4-Bromofluorobenzene	123			67.0-138		10/23/2018 06:38	WG1184696

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

Sample Narrative:

L1035515-05 WG1184696, WG1183540: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1035515-05 WG1184696, WG1183540: Not all compounds reportable from lower dilution.

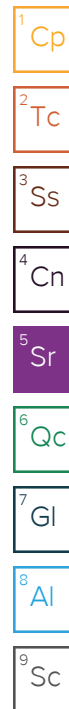


Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.5		1	10/22/2018 11:24	WG1184403

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		6.12	11.2	400	10/23/2018 06:58	WG1184696
Acrylonitrile	U		0.00212	0.0140	1	10/19/2018 16:25	WG1183540
Benzene	U		0.000447	0.00112	1	10/19/2018 16:25	WG1183540
Bromobenzene	U		0.00117	0.0140	1	10/19/2018 16:25	WG1183540
Bromodichloromethane	U		0.000880	0.00279	1	10/19/2018 16:25	WG1183540
Bromochloromethane	U		0.00126	0.00559	1	10/19/2018 16:25	WG1183540
Bromoform	U		0.00668	0.0279	1	10/19/2018 16:25	WG1183540
Bromomethane	U		0.00413	0.0140	1	10/19/2018 16:25	WG1183540
n-Butylbenzene	U		0.00429	0.0140	1	10/19/2018 16:25	WG1183540
sec-Butylbenzene	U		0.00283	0.0140	1	10/19/2018 16:25	WG1183540
tert-Butylbenzene	U		0.00173	0.00559	1	10/19/2018 16:25	WG1183540
Carbon disulfide	U	J0	0.00454	0.0140	1	10/19/2018 16:25	WG1183540
Carbon tetrachloride	U		0.00121	0.00559	1	10/19/2018 16:25	WG1183540
Chlorobenzene	U		0.000640	0.00279	1	10/19/2018 16:25	WG1183540
Chlorodibromomethane	U		0.000503	0.00279	1	10/19/2018 16:25	WG1183540
Chloroethane	U		0.00121	0.00559	1	10/19/2018 16:25	WG1183540
Chloroform	U		0.000464	0.00279	1	10/19/2018 16:25	WG1183540
Chloromethane	U		0.00155	0.0140	1	10/19/2018 16:25	WG1183540
2-Chlorotoluene	U		0.00103	0.00279	1	10/19/2018 16:25	WG1183540
4-Chlorotoluene	U		0.00126	0.00559	1	10/19/2018 16:25	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00570	0.0279	1	10/19/2018 16:25	WG1183540
1,2-Dibromoethane	U		0.000587	0.00279	1	10/19/2018 16:25	WG1183540
Dibromomethane	U		0.00112	0.00559	1	10/19/2018 16:25	WG1183540
1,2-Dichlorobenzene	U		0.00162	0.00559	1	10/19/2018 16:25	WG1183540
1,3-Dichlorobenzene	U		0.00190	0.00559	1	10/19/2018 16:25	WG1183540
1,4-Dichlorobenzene	U		0.00220	0.00559	1	10/19/2018 16:25	WG1183540
Dichlorodifluoromethane	U	J4	0.365	1.12	400	10/23/2018 06:58	WG1184696
1,1-Dichloroethane	U		0.000642	0.00279	1	10/19/2018 16:25	WG1183540
1,2-Dichloroethane	U		0.000531	0.00279	1	10/19/2018 16:25	WG1183540
1,1-Dichloroethene	U		0.000559	0.00279	1	10/19/2018 16:25	WG1183540
cis-1,2-Dichloroethene	1.20		0.000771	0.00279	1	10/19/2018 16:25	WG1183540
trans-1,2-Dichloroethene	0.00449	J	0.00160	0.00559	1	10/19/2018 16:25	WG1183540
1,2-Dichloropropane	U		0.00142	0.00559	1	10/19/2018 16:25	WG1183540
1,1-Dichloropropene	U		0.000782	0.00279	1	10/19/2018 16:25	WG1183540
1,3-Dichloropropane	U		0.00196	0.00559	1	10/19/2018 16:25	WG1183540
cis-1,3-Dichloropropene	U		0.000757	0.00279	1	10/19/2018 16:25	WG1183540
trans-1,3-Dichloropropene	U	J4	0.00171	0.00559	1	10/19/2018 16:25	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00156	0.00559	1	10/19/2018 16:25	WG1183540
2,2-Dichloropropane	U		0.000886	0.00279	1	10/19/2018 16:25	WG1183540
Di-isopropyl ether	U		0.000391	0.00112	1	10/19/2018 16:25	WG1183540
Ethylbenzene	0.000655	J J0	0.000592	0.00279	1	10/19/2018 16:25	WG1183540
Hexachloro-1,3-butadiene	U		0.0142	0.0279	1	10/19/2018 16:25	WG1183540
2-Hexanone	U		0.0112	0.0279	1	10/19/2018 16:25	WG1183540
n-Hexane	0.00486	J J0 J4	0.00118	0.00559	1	10/19/2018 16:25	WG1183540
Iodomethane	U		0.00676	0.0140	1	10/19/2018 16:25	WG1183540
Isopropylbenzene	U		0.000964	0.00279	1	10/19/2018 16:25	WG1183540
p-Isopropyltoluene	U		0.00260	0.00559	1	10/19/2018 16:25	WG1183540
2-Butanone (MEK)	0.0313	B J4	0.0140	0.0279	1	10/19/2018 16:25	WG1183540
Methylene Chloride	U		0.00742	0.0279	1	10/19/2018 16:25	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0279	1	10/19/2018 16:25	WG1183540





Collected date/time: 10/16/18 10:09

L1035515

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000330	0.00112	1	10/19/2018 16:25	WG1183540
Naphthalene	U		0.00349	0.0140	1	10/19/2018 16:25	WG1183540
n-Propylbenzene	U		0.00132	0.00559	1	10/19/2018 16:25	WG1183540
Styrene	U		0.00305	0.0140	1	10/19/2018 16:25	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000559	0.00279	1	10/19/2018 16:25	WG1183540
1,1,2,2-Tetrachloroethane	U		0.174	1.12	400	10/23/2018 06:58	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.302	1.12	400	10/23/2018 06:58	WG1184696
Tetrachloroethene	46.7		0.313	1.12	400	10/23/2018 06:58	WG1184696
Toluene	0.00321	L	0.00140	0.00559	1	10/19/2018 16:25	WG1183540
1,2,3-Trichlorobenzene	U		0.279	1.12	400	10/23/2018 06:58	WG1184696
1,2,4-Trichlorobenzene	U		0.00539	0.0140	1	10/19/2018 16:25	WG1183540
1,1,1-Trichloroethane	U		0.000307	0.00279	1	10/19/2018 16:25	WG1183540
1,1,2-Trichloroethane	U		0.000987	0.00279	1	10/19/2018 16:25	WG1183540
Trichloroethene	0.681		0.000447	0.00112	1	10/19/2018 16:25	WG1183540
Trichlorofluoromethane	U		0.000559	0.00279	1	10/19/2018 16:25	WG1183540
1,2,3-Trichloropropane	U		0.00570	0.0140	1	10/19/2018 16:25	WG1183540
1,2,4-Trimethylbenzene	0.00517	L	0.00130	0.00559	1	10/19/2018 16:25	WG1183540
1,2,3-Trimethylbenzene	0.00170	L	0.00128	0.00559	1	10/19/2018 16:25	WG1183540
1,3,5-Trimethylbenzene	0.00138	L	0.00121	0.00559	1	10/19/2018 16:25	WG1183540
Vinyl acetate	U		0.00393	0.0140	1	10/19/2018 16:25	WG1183540
Vinyl chloride	U		0.305	1.12	400	10/23/2018 06:58	WG1184696
Xylenes, Total	U		0.00534	0.00726	1	10/19/2018 16:25	WG1183540
(S) Toluene-d8	112			75.0-131		10/19/2018 16:25	WG1183540
(S) Toluene-d8	98.1			75.0-131		10/23/2018 06:58	WG1184696
(S) Dibromofluoromethane	92.5			65.0-129		10/19/2018 16:25	WG1183540
(S) Dibromofluoromethane	118			65.0-129		10/23/2018 06:58	WG1184696
(S) 4-Bromofluorobenzene	90.7			67.0-138		10/19/2018 16:25	WG1183540
(S) 4-Bromofluorobenzene	120			67.0-138		10/23/2018 06:58	WG1184696

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

Sample Narrative:

L1035515-06 WG1184696, WG1183540: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1035515-06 WG1184696, WG1183540: Not all compounds reportable from lower dilution.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.6		1	10/22/2018 11:24	WG1184403

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0156	0.0286	1	10/23/2018 01:38	WG1184696
Acrylonitrile	U		0.00217	0.0143	1	10/19/2018 16:43	WG1183540
Benzene	U		0.000457	0.00114	1	10/19/2018 16:43	WG1183540
Bromobenzene	U		0.00120	0.0143	1	10/19/2018 16:43	WG1183540
Bromodichloromethane	U		0.000900	0.00286	1	10/19/2018 16:43	WG1183540
Bromochloromethane	U		0.00129	0.00571	1	10/19/2018 16:43	WG1183540
Bromoform	U		0.00683	0.0286	1	10/19/2018 16:43	WG1183540
Bromomethane	U		0.00423	0.0143	1	10/19/2018 16:43	WG1183540
n-Butylbenzene	U		0.00439	0.0143	1	10/19/2018 16:43	WG1183540
sec-Butylbenzene	U		0.00289	0.0143	1	10/19/2018 16:43	WG1183540
tert-Butylbenzene	U		0.00177	0.00571	1	10/19/2018 16:43	WG1183540
Carbon disulfide	U	J0	0.00464	0.0143	1	10/19/2018 16:43	WG1183540
Carbon tetrachloride	U		0.00123	0.00571	1	10/19/2018 16:43	WG1183540
Chlorobenzene	U		0.000654	0.00286	1	10/19/2018 16:43	WG1183540
Chlorodibromomethane	U		0.000514	0.00286	1	10/19/2018 16:43	WG1183540
Chloroethane	U		0.00123	0.00571	1	10/19/2018 16:43	WG1183540
Chloroform	U		0.000474	0.00286	1	10/19/2018 16:43	WG1183540
Chloromethane	U		0.00159	0.0143	1	10/19/2018 16:43	WG1183540
2-Chlorotoluene	U		0.00105	0.00286	1	10/19/2018 16:43	WG1183540
4-Chlorotoluene	U		0.00129	0.00571	1	10/19/2018 16:43	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00582	0.0286	1	10/19/2018 16:43	WG1183540
1,2-Dibromoethane	U		0.000600	0.00286	1	10/19/2018 16:43	WG1183540
Dibromomethane	U		0.00114	0.00571	1	10/19/2018 16:43	WG1183540
1,2-Dichlorobenzene	U		0.00166	0.00571	1	10/19/2018 16:43	WG1183540
1,3-Dichlorobenzene	U		0.00194	0.00571	1	10/19/2018 16:43	WG1183540
1,4-Dichlorobenzene	U		0.00225	0.00571	1	10/19/2018 16:43	WG1183540
Dichlorodifluoromethane	U	J4	0.000934	0.00286	1	10/23/2018 01:38	WG1184696
1,1-Dichloroethane	U		0.000657	0.00286	1	10/19/2018 16:43	WG1183540
1,2-Dichloroethane	U		0.000542	0.00286	1	10/19/2018 16:43	WG1183540
1,1-Dichloroethene	U		0.000571	0.00286	1	10/19/2018 16:43	WG1183540
cis-1,2-Dichloroethene	0.0101		0.000788	0.00286	1	10/19/2018 16:43	WG1183540
trans-1,2-Dichloroethene	U		0.00163	0.00571	1	10/19/2018 16:43	WG1183540
1,2-Dichloropropane	U		0.00145	0.00571	1	10/19/2018 16:43	WG1183540
1,1-Dichloropropene	U		0.000799	0.00286	1	10/19/2018 16:43	WG1183540
1,3-Dichloropropane	U		0.00200	0.00571	1	10/19/2018 16:43	WG1183540
cis-1,3-Dichloropropene	U		0.000774	0.00286	1	10/19/2018 16:43	WG1183540
trans-1,3-Dichloropropene	U	J4	0.00175	0.00571	1	10/19/2018 16:43	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00160	0.00571	1	10/19/2018 16:43	WG1183540
2,2-Dichloropropane	U		0.000906	0.00286	1	10/19/2018 16:43	WG1183540
Di-isopropyl ether	U		0.000400	0.00114	1	10/19/2018 16:43	WG1183540
Ethylbenzene	U	J0	0.000605	0.00286	1	10/19/2018 16:43	WG1183540
Hexachloro-1,3-butadiene	U		0.0145	0.0286	1	10/19/2018 16:43	WG1183540
2-Hexanone	U		0.0114	0.0286	1	10/19/2018 16:43	WG1183540
n-Hexane	0.00578	J0 J4	0.00121	0.00571	1	10/19/2018 16:43	WG1183540
Iodomethane	U		0.00691	0.0143	1	10/19/2018 16:43	WG1183540
Isopropylbenzene	U		0.000986	0.00286	1	10/19/2018 16:43	WG1183540
p-Isopropyltoluene	U		0.00266	0.00571	1	10/19/2018 16:43	WG1183540
2-Butanone (MEK)	0.0274	B J J4	0.0143	0.0286	1	10/19/2018 16:43	WG1183540
Methylene Chloride	U		0.00758	0.0286	1	10/19/2018 16:43	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0286	1	10/19/2018 16:43	WG1183540





Collected date/time: 10/16/18 11:18

L1035515

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000337	0.00114	1	10/19/2018 16:43	WG1183540
Naphthalene	U		0.00356	0.0143	1	10/19/2018 16:43	WG1183540
n-Propylbenzene	U		0.00135	0.00571	1	10/19/2018 16:43	WG1183540
Styrene	U		0.00312	0.0143	1	10/19/2018 16:43	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000571	0.00286	1	10/19/2018 16:43	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000445	0.00286	1	10/23/2018 01:38	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000771	0.00286	1	10/23/2018 01:38	WG1184696
Tetrachloroethene	0.0927		0.000799	0.00286	1	10/23/2018 01:38	WG1184696
Toluene	U		0.00143	0.00571	1	10/19/2018 16:43	WG1183540
1,2,3-Trichlorobenzene	U		0.000714	0.00286	1	10/23/2018 01:38	WG1184696
1,2,4-Trichlorobenzene	U		0.00550	0.0143	1	10/19/2018 16:43	WG1183540
1,1,1-Trichloroethane	U		0.000314	0.00286	1	10/19/2018 16:43	WG1183540
1,1,2-Trichloroethane	U		0.00101	0.00286	1	10/19/2018 16:43	WG1183540
Trichloroethene	0.00586		0.000457	0.00114	1	10/19/2018 16:43	WG1183540
Trichlorofluoromethane	U		0.000571	0.00286	1	10/19/2018 16:43	WG1183540
1,2,3-Trichloropropane	U		0.00582	0.0143	1	10/19/2018 16:43	WG1183540
1,2,4-Trimethylbenzene	U		0.00132	0.00571	1	10/19/2018 16:43	WG1183540
1,2,3-Trimethylbenzene	U		0.00131	0.00571	1	10/19/2018 16:43	WG1183540
1,3,5-Trimethylbenzene	U		0.00123	0.00571	1	10/19/2018 16:43	WG1183540
Vinyl acetate	U		0.00402	0.0143	1	10/19/2018 16:43	WG1183540
Vinyl chloride	U	J4	0.000780	0.00286	1	10/19/2018 16:43	WG1183540
Xylenes, Total	U		0.00546	0.00742	1	10/19/2018 16:43	WG1183540
(S) Toluene-d8	101			75.0-131		10/19/2018 16:43	WG1183540
(S) Toluene-d8	101			75.0-131		10/23/2018 01:38	WG1184696
(S) Dibromofluoromethane	94.1			65.0-129		10/19/2018 16:43	WG1183540
(S) Dibromofluoromethane	111			65.0-129		10/23/2018 01:38	WG1184696
(S) 4-Bromofluorobenzene	90.7			67.0-138		10/19/2018 16:43	WG1183540
(S) 4-Bromofluorobenzene	121			67.0-138		10/23/2018 01:38	WG1184696

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

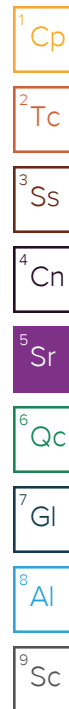


Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.3		1	10/22/2018 11:24	WG1184403

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0159	0.0290	1	10/23/2018 01:58	WG1184696
Acrylonitrile	U		0.00220	0.0145	1	10/19/2018 17:02	WG1183540
Benzene	U		0.000463	0.00116	1	10/19/2018 17:02	WG1183540
Bromobenzene	U		0.00122	0.0145	1	10/19/2018 17:02	WG1183540
Bromodichloromethane	U		0.000913	0.00290	1	10/19/2018 17:02	WG1183540
Bromochloromethane	U		0.00131	0.00579	1	10/19/2018 17:02	WG1183540
Bromoform	U		0.00693	0.0290	1	10/19/2018 17:02	WG1183540
Bromomethane	U		0.00429	0.0145	1	10/19/2018 17:02	WG1183540
n-Butylbenzene	U		0.00445	0.0145	1	10/19/2018 17:02	WG1183540
sec-Butylbenzene	U		0.00293	0.0145	1	10/19/2018 17:02	WG1183540
tert-Butylbenzene	U		0.00180	0.00579	1	10/19/2018 17:02	WG1183540
Carbon disulfide	U	J0	0.00470	0.0145	1	10/19/2018 17:02	WG1183540
Carbon tetrachloride	U		0.00125	0.00579	1	10/19/2018 17:02	WG1183540
Chlorobenzene	U		0.000664	0.00290	1	10/19/2018 17:02	WG1183540
Chlorodibromomethane	U		0.000521	0.00290	1	10/19/2018 17:02	WG1183540
Chloroethane	U		0.00125	0.00579	1	10/19/2018 17:02	WG1183540
Chloroform	U		0.000481	0.00290	1	10/19/2018 17:02	WG1183540
Chloromethane	U		0.00161	0.0145	1	10/19/2018 17:02	WG1183540
2-Chlorotoluene	U		0.00107	0.00290	1	10/19/2018 17:02	WG1183540
4-Chlorotoluene	U		0.00131	0.00579	1	10/19/2018 17:02	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00591	0.0290	1	10/19/2018 17:02	WG1183540
1,2-Dibromoethane	U		0.000608	0.00290	1	10/19/2018 17:02	WG1183540
Dibromomethane	U		0.00116	0.00579	1	10/19/2018 17:02	WG1183540
1,2-Dichlorobenzene	U		0.00168	0.00579	1	10/19/2018 17:02	WG1183540
1,3-Dichlorobenzene	U		0.00197	0.00579	1	10/19/2018 17:02	WG1183540
1,4-Dichlorobenzene	U		0.00228	0.00579	1	10/19/2018 17:02	WG1183540
Dichlorodifluoromethane	U	J4	0.000948	0.00290	1	10/23/2018 01:58	WG1184696
1,1-Dichloroethane	U		0.000666	0.00290	1	10/19/2018 17:02	WG1183540
1,2-Dichloroethane	U		0.000550	0.00290	1	10/19/2018 17:02	WG1183540
1,1-Dichloroethene	U		0.000579	0.00290	1	10/19/2018 17:02	WG1183540
cis-1,2-Dichloroethene	0.0118		0.000800	0.00290	1	10/19/2018 17:02	WG1183540
trans-1,2-Dichloroethene	U		0.00166	0.00579	1	10/19/2018 17:02	WG1183540
1,2-Dichloropropane	U		0.00147	0.00579	1	10/19/2018 17:02	WG1183540
1,1-Dichloropropene	U		0.000811	0.00290	1	10/19/2018 17:02	WG1183540
1,3-Dichloropropane	U		0.00203	0.00579	1	10/19/2018 17:02	WG1183540
cis-1,3-Dichloropropene	U		0.000786	0.00290	1	10/19/2018 17:02	WG1183540
trans-1,3-Dichloropropene	U	J4	0.00177	0.00579	1	10/19/2018 17:02	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00162	0.00579	1	10/19/2018 17:02	WG1183540
2,2-Dichloropropane	U		0.000919	0.00290	1	10/19/2018 17:02	WG1183540
Di-isopropyl ether	U		0.000406	0.00116	1	10/19/2018 17:02	WG1183540
Ethylbenzene	U	J0	0.000614	0.00290	1	10/19/2018 17:02	WG1183540
Hexachloro-1,3-butadiene	U		0.0147	0.0290	1	10/19/2018 17:02	WG1183540
2-Hexanone	U		0.0116	0.0290	1	10/19/2018 17:02	WG1183540
n-Hexane	0.00565	J JO J4	0.00123	0.00579	1	10/19/2018 17:02	WG1183540
Iodomethane	U		0.00701	0.0145	1	10/19/2018 17:02	WG1183540
Isopropylbenzene	U		0.00100	0.00290	1	10/19/2018 17:02	WG1183540
p-Isopropyltoluene	U		0.00270	0.00579	1	10/19/2018 17:02	WG1183540
2-Butanone (MEK)	0.0328	B J4	0.0145	0.0290	1	10/19/2018 17:02	WG1183540
Methylene Chloride	U		0.00769	0.0290	1	10/19/2018 17:02	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1	10/19/2018 17:02	WG1183540





Collected date/time: 10/16/18 11:23

L1035515

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000342	0.00116	1	10/19/2018 17:02	WG1183540
Naphthalene	U		0.00362	0.0145	1	10/19/2018 17:02	WG1183540
n-Propylbenzene	U		0.00137	0.00579	1	10/19/2018 17:02	WG1183540
Styrene	U		0.00316	0.0145	1	10/19/2018 17:02	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000579	0.00290	1	10/19/2018 17:02	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000452	0.00290	1	10/23/2018 01:58	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000782	0.00290	1	10/23/2018 01:58	WG1184696
Tetrachloroethene	0.0420		0.000811	0.00290	1	10/23/2018 01:58	WG1184696
Toluene	U		0.00145	0.00579	1	10/19/2018 17:02	WG1183540
1,2,3-Trichlorobenzene	U		0.000724	0.00290	1	10/23/2018 01:58	WG1184696
1,2,4-Trichlorobenzene	U		0.00558	0.0145	1	10/19/2018 17:02	WG1183540
1,1,1-Trichloroethane	U		0.000319	0.00290	1	10/19/2018 17:02	WG1183540
1,1,2-Trichloroethane	U		0.00102	0.00290	1	10/19/2018 17:02	WG1183540
Trichloroethene	0.0342		0.000463	0.00116	1	10/19/2018 17:02	WG1183540
Trichlorofluoromethane	U		0.000579	0.00290	1	10/19/2018 17:02	WG1183540
1,2,3-Trichloropropane	U		0.00591	0.0145	1	10/19/2018 17:02	WG1183540
1,2,4-Trimethylbenzene	U		0.00134	0.00579	1	10/19/2018 17:02	WG1183540
1,2,3-Trimethylbenzene	U		0.00133	0.00579	1	10/19/2018 17:02	WG1183540
1,3,5-Trimethylbenzene	U		0.00125	0.00579	1	10/19/2018 17:02	WG1183540
Vinyl acetate	U		0.00408	0.0145	1	10/19/2018 17:02	WG1183540
Vinyl chloride	U	J4	0.000791	0.00290	1	10/19/2018 17:02	WG1183540
Xylenes, Total	U		0.00554	0.00753	1	10/19/2018 17:02	WG1183540
(S) Toluene-d8	102			75.0-131		10/19/2018 17:02	WG1183540
(S) Toluene-d8	99.2			75.0-131		10/23/2018 01:58	WG1184696
(S) Dibromofluoromethane	95.6			65.0-129		10/19/2018 17:02	WG1183540
(S) Dibromofluoromethane	114			65.0-129		10/23/2018 01:58	WG1184696
(S) 4-Bromofluorobenzene	88.3			67.0-138		10/19/2018 17:02	WG1183540
(S) 4-Bromofluorobenzene	121			67.0-138		10/23/2018 01:58	WG1184696

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.8		1	10/22/2018 11:24	WG1184403

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0149	0.0272	1	10/23/2018 02:18	WG1184696
Acrylonitrile	U		0.00207	0.0136	1	10/19/2018 17:20	WG1183540
Benzene	U		0.000436	0.00109	1	10/19/2018 17:20	WG1183540
Bromobenzene	U		0.00114	0.0136	1	10/19/2018 17:20	WG1183540
Bromodichloromethane	U		0.000859	0.00272	1	10/19/2018 17:20	WG1183540
Bromochloromethane	U		0.00123	0.00545	1	10/19/2018 17:20	WG1183540
Bromoform	U		0.00652	0.0272	1	10/19/2018 17:20	WG1183540
Bromomethane	U		0.00403	0.0136	1	10/19/2018 17:20	WG1183540
n-Butylbenzene	U		0.00418	0.0136	1	10/19/2018 17:20	WG1183540
sec-Butylbenzene	U		0.00276	0.0136	1	10/19/2018 17:20	WG1183540
tert-Butylbenzene	U		0.00169	0.00545	1	10/19/2018 17:20	WG1183540
Carbon disulfide	U	J0	0.00442	0.0136	1	10/19/2018 17:20	WG1183540
Carbon tetrachloride	U		0.00118	0.00545	1	10/19/2018 17:20	WG1183540
Chlorobenzene	U		0.000624	0.00272	1	10/19/2018 17:20	WG1183540
Chlorodibromomethane	U		0.000490	0.00272	1	10/19/2018 17:20	WG1183540
Chloroethane	U		0.00118	0.00545	1	10/19/2018 17:20	WG1183540
Chloroform	U		0.000452	0.00272	1	10/19/2018 17:20	WG1183540
Chloromethane	U		0.00151	0.0136	1	10/19/2018 17:20	WG1183540
2-Chlorotoluene	U		0.00100	0.00272	1	10/19/2018 17:20	WG1183540
4-Chlorotoluene	U		0.00123	0.00545	1	10/19/2018 17:20	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00556	0.0272	1	10/19/2018 17:20	WG1183540
1,2-Dibromoethane	U		0.000572	0.00272	1	10/19/2018 17:20	WG1183540
Dibromomethane	U		0.00109	0.00545	1	10/19/2018 17:20	WG1183540
1,2-Dichlorobenzene	U		0.00158	0.00545	1	10/19/2018 17:20	WG1183540
1,3-Dichlorobenzene	U		0.00185	0.00545	1	10/19/2018 17:20	WG1183540
1,4-Dichlorobenzene	U		0.00215	0.00545	1	10/19/2018 17:20	WG1183540
Dichlorodifluoromethane	U	J4	0.000891	0.00272	1	10/23/2018 02:18	WG1184696
1,1-Dichloroethane	U		0.000627	0.00272	1	10/19/2018 17:20	WG1183540
1,2-Dichloroethane	U		0.000518	0.00272	1	10/19/2018 17:20	WG1183540
1,1-Dichloroethene	U		0.000545	0.00272	1	10/19/2018 17:20	WG1183540
cis-1,2-Dichloroethene	0.0294		0.000752	0.00272	1	10/19/2018 17:20	WG1183540
trans-1,2-Dichloroethene	U		0.00156	0.00545	1	10/19/2018 17:20	WG1183540
1,2-Dichloropropane	U		0.00138	0.00545	1	10/19/2018 17:20	WG1183540
1,1-Dichloropropene	U		0.000763	0.00272	1	10/19/2018 17:20	WG1183540
1,3-Dichloropropane	U		0.00191	0.00545	1	10/19/2018 17:20	WG1183540
cis-1,3-Dichloropropene	U		0.000739	0.00272	1	10/19/2018 17:20	WG1183540
trans-1,3-Dichloropropene	U	J4	0.00167	0.00545	1	10/19/2018 17:20	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00153	0.00545	1	10/19/2018 17:20	WG1183540
2,2-Dichloropropane	U		0.000864	0.00272	1	10/19/2018 17:20	WG1183540
Di-isopropyl ether	U		0.000381	0.00109	1	10/19/2018 17:20	WG1183540
Ethylbenzene	U	J0	0.000577	0.00272	1	10/19/2018 17:20	WG1183540
Hexachloro-1,3-butadiene	U		0.0138	0.0272	1	10/19/2018 17:20	WG1183540
2-Hexanone	U		0.0109	0.0272	1	10/19/2018 17:20	WG1183540
n-Hexane	0.00689	J0 J4	0.00115	0.00545	1	10/19/2018 17:20	WG1183540
Iodomethane	U		0.00659	0.0136	1	10/19/2018 17:20	WG1183540
Isopropylbenzene	U		0.000940	0.00272	1	10/19/2018 17:20	WG1183540
p-Isopropyltoluene	U		0.00254	0.00545	1	10/19/2018 17:20	WG1183540
2-Butanone (MEK)	0.0295	B J4	0.0136	0.0272	1	10/19/2018 17:20	WG1183540
Methylene Chloride	U		0.00723	0.0272	1	10/19/2018 17:20	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0272	1	10/19/2018 17:20	WG1183540

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/16/18 11:30

L1035515

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000321	0.00109	1	10/19/2018 17:20	WG1183540
Naphthalene	U		0.00340	0.0136	1	10/19/2018 17:20	WG1183540
n-Propylbenzene	U		0.00129	0.00545	1	10/19/2018 17:20	WG1183540
Styrene	U		0.00297	0.0136	1	10/19/2018 17:20	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000545	0.00272	1	10/19/2018 17:20	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000425	0.00272	1	10/23/2018 02:18	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000735	0.00272	1	10/23/2018 02:18	WG1184696
Tetrachloroethene	1.23		0.000763	0.00272	1	10/19/2018 17:20	WG1183540
Toluene	U		0.00136	0.00545	1	10/19/2018 17:20	WG1183540
1,2,3-Trichlorobenzene	U		0.000681	0.00272	1	10/23/2018 02:18	WG1184696
1,2,4-Trichlorobenzene	U		0.00525	0.0136	1	10/19/2018 17:20	WG1183540
1,1,1-Trichloroethane	U		0.000300	0.00272	1	10/19/2018 17:20	WG1183540
1,1,2-Trichloroethane	U		0.000962	0.00272	1	10/19/2018 17:20	WG1183540
Trichloroethene	0.0362		0.000436	0.00109	1	10/19/2018 17:20	WG1183540
Trichlorofluoromethane	U		0.000545	0.00272	1	10/19/2018 17:20	WG1183540
1,2,3-Trichloropropane	U		0.00556	0.0136	1	10/19/2018 17:20	WG1183540
1,2,4-Trimethylbenzene	U		0.00126	0.00545	1	10/19/2018 17:20	WG1183540
1,2,3-Trimethylbenzene	U		0.00125	0.00545	1	10/19/2018 17:20	WG1183540
1,3,5-Trimethylbenzene	U		0.00118	0.00545	1	10/19/2018 17:20	WG1183540
Vinyl acetate	U		0.00384	0.0136	1	10/19/2018 17:20	WG1183540
Vinyl chloride	0.00247	J	0.000744	0.00272	1	10/23/2018 02:18	WG1184696
Xylenes, Total	U		0.00521	0.00708	1	10/19/2018 17:20	WG1183540
(S) Toluene-d8	102			75.0-131		10/19/2018 17:20	WG1183540
(S) Toluene-d8	98.9			75.0-131		10/23/2018 02:18	WG1184696
(S) Dibromofluoromethane	94.4			65.0-129		10/19/2018 17:20	WG1183540
(S) Dibromofluoromethane	112			65.0-129		10/23/2018 02:18	WG1184696
(S) 4-Bromofluorobenzene	91.1			67.0-138		10/19/2018 17:20	WG1183540
(S) 4-Bromofluorobenzene	120			67.0-138		10/23/2018 02:18	WG1184696

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	94.5		1	10/22/2018 11:24	WG1184403

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.580	1.06	40	10/23/2018 07:18	WG1184696
Acrylonitrile	U		0.00201	0.0132	1	10/19/2018 18:07	WG1183540
Benzene	U		0.000423	0.00106	1	10/19/2018 18:07	WG1183540
Bromobenzene	U		0.00111	0.0132	1	10/19/2018 18:07	WG1183540
Bromodichloromethane	U		0.000834	0.00265	1	10/19/2018 18:07	WG1183540
Bromochloromethane	U		0.00120	0.00529	1	10/19/2018 18:07	WG1183540
Bromoform	U		0.00633	0.0265	1	10/19/2018 18:07	WG1183540
Bromomethane	U		0.00392	0.0132	1	10/19/2018 18:07	WG1183540
n-Butylbenzene	U		0.00406	0.0132	1	10/19/2018 18:07	WG1183540
sec-Butylbenzene	U		0.00268	0.0132	1	10/19/2018 18:07	WG1183540
tert-Butylbenzene	U		0.00164	0.00529	1	10/19/2018 18:07	WG1183540
Carbon disulfide	U	J0	0.00430	0.0132	1	10/19/2018 18:07	WG1183540
Carbon tetrachloride	U		0.00114	0.00529	1	10/19/2018 18:07	WG1183540
Chlorobenzene	U		0.000607	0.00265	1	10/19/2018 18:07	WG1183540
Chlorodibromomethane	U		0.000476	0.00265	1	10/19/2018 18:07	WG1183540
Chloroethane	U		0.00114	0.00529	1	10/19/2018 18:07	WG1183540
Chloroform	U		0.000439	0.00265	1	10/19/2018 18:07	WG1183540
Chloromethane	U		0.00147	0.0132	1	10/19/2018 18:07	WG1183540
2-Chlorotoluene	U		0.000974	0.00265	1	10/19/2018 18:07	WG1183540
4-Chlorotoluene	U		0.00120	0.00529	1	10/19/2018 18:07	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00540	0.0265	1	10/19/2018 18:07	WG1183540
1,2-Dibromoethane	U		0.000556	0.00265	1	10/19/2018 18:07	WG1183540
Dibromomethane	U		0.00106	0.00529	1	10/19/2018 18:07	WG1183540
1,2-Dichlorobenzene	U		0.00153	0.00529	1	10/19/2018 18:07	WG1183540
1,3-Dichlorobenzene	U		0.00180	0.00529	1	10/19/2018 18:07	WG1183540
1,4-Dichlorobenzene	U		0.00209	0.00529	1	10/19/2018 18:07	WG1183540
Dichlorodifluoromethane	U	J4	0.0346	0.106	40	10/23/2018 07:18	WG1184696
1,1-Dichloroethane	U		0.000609	0.00265	1	10/19/2018 18:07	WG1183540
1,2-Dichloroethane	U		0.000503	0.00265	1	10/19/2018 18:07	WG1183540
1,1-Dichloroethene	0.00498		0.000529	0.00265	1	10/19/2018 18:07	WG1183540
cis-1,2-Dichloroethene	2.74		0.0292	0.106	40	10/23/2018 07:18	WG1184696
trans-1,2-Dichloroethene	0.00577		0.00151	0.00529	1	10/19/2018 18:07	WG1183540
1,2-Dichloropropane	U		0.00134	0.00529	1	10/19/2018 18:07	WG1183540
1,1-Dichloropropene	U		0.000741	0.00265	1	10/19/2018 18:07	WG1183540
1,3-Dichloropropane	U		0.00185	0.00529	1	10/19/2018 18:07	WG1183540
cis-1,3-Dichloropropene	U		0.000718	0.00265	1	10/19/2018 18:07	WG1183540
trans-1,3-Dichloropropene	U	J4	0.00162	0.00529	1	10/19/2018 18:07	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00148	0.00529	1	10/19/2018 18:07	WG1183540
2,2-Dichloropropane	U		0.000839	0.00265	1	10/19/2018 18:07	WG1183540
Di-isopropyl ether	U		0.000370	0.00106	1	10/19/2018 18:07	WG1183540
Ethylbenzene	0.000720	J J0	0.000561	0.00265	1	10/19/2018 18:07	WG1183540
Hexachloro-1,3-butadiene	U		0.0134	0.0265	1	10/19/2018 18:07	WG1183540
2-Hexanone	U		0.0106	0.0265	1	10/19/2018 18:07	WG1183540
n-Hexane	0.00438	J J0 J4	0.00112	0.00529	1	10/19/2018 18:07	WG1183540
Iodomethane	U		0.00640	0.0132	1	10/19/2018 18:07	WG1183540
Isopropylbenzene	U		0.000914	0.00265	1	10/19/2018 18:07	WG1183540
p-Isopropyltoluene	U		0.00247	0.00529	1	10/19/2018 18:07	WG1183540
2-Butanone (MEK)	0.0330	B J4	0.0132	0.0265	1	10/19/2018 18:07	WG1183540
Methylene Chloride	U		0.00703	0.0265	1	10/19/2018 18:07	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0106	0.0265	1	10/19/2018 18:07	WG1183540

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		0.000312	0.00106	1	10/19/2018 18:07	WG1183540
Naphthalene	U		0.00330	0.0132	1	10/19/2018 18:07	WG1183540
n-Propylbenzene	U		0.00125	0.00529	1	10/19/2018 18:07	WG1183540
Styrene	U		0.00289	0.0132	1	10/19/2018 18:07	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000529	0.00265	1	10/19/2018 18:07	WG1183540
1,1,2,2-Tetrachloroethane	U		0.0165	0.106	40	10/23/2018 07:18	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.0286	0.106	40	10/23/2018 07:18	WG1184696
Tetrachloroethene	18.9		0.0296	0.106	40	10/23/2018 07:18	WG1184696
Toluene	U		0.00132	0.00529	1	10/19/2018 18:07	WG1183540
1,2,3-Trichlorobenzene	U		0.0265	0.106	40	10/23/2018 07:18	WG1184696
1,2,4-Trichlorobenzene	U		0.00510	0.0132	1	10/19/2018 18:07	WG1183540
1,1,1-Trichloroethane	U		0.000291	0.00265	1	10/19/2018 18:07	WG1183540
1,1,2-Trichloroethane	U		0.000935	0.00265	1	10/19/2018 18:07	WG1183540
Trichloroethene	3.11		0.0169	0.0423	40	10/24/2018 17:24	WG1185916
Trichlorofluoromethane	U		0.000529	0.00265	1	10/19/2018 18:07	WG1183540
1,2,3-Trichloropropane	U		0.00540	0.0132	1	10/19/2018 18:07	WG1183540
1,2,4-Trimethylbenzene	0.00387	L	0.00123	0.00529	1	10/19/2018 18:07	WG1183540
1,2,3-Trimethylbenzene	0.00196	L	0.00122	0.00529	1	10/19/2018 18:07	WG1183540
1,3,5-Trimethylbenzene	0.00130	L	0.00114	0.00529	1	10/19/2018 18:07	WG1183540
Vinyl acetate	U		0.00373	0.0132	1	10/19/2018 18:07	WG1183540
Vinyl chloride	0.0532	L	0.0289	0.106	40	10/23/2018 07:18	WG1184696
Xylenes, Total	U		0.00506	0.00688	1	10/19/2018 18:07	WG1183540
(S) Toluene-d8	105			75.0-131		10/19/2018 18:07	WG1183540
(S) Toluene-d8	97.7			75.0-131		10/23/2018 07:18	WG1184696
(S) Toluene-d8	119			75.0-131		10/24/2018 17:24	WG1185916
(S) Dibromofluoromethane	95.2			65.0-129		10/19/2018 18:07	WG1183540
(S) Dibromofluoromethane	117			65.0-129		10/23/2018 07:18	WG1184696
(S) Dibromofluoromethane	96.8			65.0-129		10/24/2018 17:24	WG1185916
(S) 4-Bromofluorobenzene	89.2			67.0-138		10/19/2018 18:07	WG1183540
(S) 4-Bromofluorobenzene	123			67.0-138		10/23/2018 07:18	WG1184696
(S) 4-Bromofluorobenzene	94.8			67.0-138		10/24/2018 17:24	WG1185916

Sample Narrative:

L1035515-10 WG1184696, WG1183540: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1035515-10 WG1184696, WG1183540: Not all compounds reportable from lower dilution.

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



Collected date/time: 10/16/18 14:06

L1035515

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.5		1	10/22/2018 11:24	WG1184403

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0160	0.0292	1	10/23/2018 02:38	WG1184696
Acrylonitrile	U		0.00222	0.0146	1	10/19/2018 18:25	WG1183540
Benzene	U		0.000468	0.00117	1	10/19/2018 18:25	WG1183540
Bromobenzene	U		0.00123	0.0146	1	10/19/2018 18:25	WG1183540
Bromodichloromethane	U		0.000921	0.00292	1	10/19/2018 18:25	WG1183540
Bromochloromethane	U		0.00132	0.00585	1	10/19/2018 18:25	WG1183540
Bromoform	U		0.00699	0.0292	1	10/19/2018 18:25	WG1183540
Bromomethane	U		0.00433	0.0146	1	10/19/2018 18:25	WG1183540
n-Butylbenzene	U		0.00449	0.0146	1	10/19/2018 18:25	WG1183540
sec-Butylbenzene	U		0.00296	0.0146	1	10/19/2018 18:25	WG1183540
tert-Butylbenzene	U		0.00181	0.00585	1	10/19/2018 18:25	WG1183540
Carbon disulfide	U	J0	0.00475	0.0146	1	10/19/2018 18:25	WG1183540
Carbon tetrachloride	U		0.00126	0.00585	1	10/19/2018 18:25	WG1183540
Chlorobenzene	U		0.000670	0.00292	1	10/19/2018 18:25	WG1183540
Chlorodibromomethane	U		0.000526	0.00292	1	10/19/2018 18:25	WG1183540
Chloroethane	U		0.00126	0.00585	1	10/19/2018 18:25	WG1183540
Chloroform	U		0.000485	0.00292	1	10/19/2018 18:25	WG1183540
Chloromethane	U		0.00163	0.0146	1	10/19/2018 18:25	WG1183540
2-Chlorotoluene	U		0.00108	0.00292	1	10/19/2018 18:25	WG1183540
4-Chlorotoluene	U		0.00132	0.00585	1	10/19/2018 18:25	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00596	0.0292	1	10/19/2018 18:25	WG1183540
1,2-Dibromoethane	U		0.000614	0.00292	1	10/19/2018 18:25	WG1183540
Dibromomethane	U		0.00117	0.00585	1	10/19/2018 18:25	WG1183540
1,2-Dichlorobenzene	U		0.00170	0.00585	1	10/19/2018 18:25	WG1183540
1,3-Dichlorobenzene	U		0.00199	0.00585	1	10/19/2018 18:25	WG1183540
1,4-Dichlorobenzene	U		0.00230	0.00585	1	10/19/2018 18:25	WG1183540
Dichlorodifluoromethane	U	J4	0.000957	0.00292	1	10/23/2018 02:38	WG1184696
1,1-Dichloroethane	U		0.000672	0.00292	1	10/19/2018 18:25	WG1183540
1,2-Dichloroethane	U		0.000555	0.00292	1	10/19/2018 18:25	WG1183540
1,1-Dichloroethene	U		0.000585	0.00292	1	10/19/2018 18:25	WG1183540
cis-1,2-Dichloroethene	0.0273		0.000807	0.00292	1	10/23/2018 02:38	WG1184696
trans-1,2-Dichloroethene	U		0.00167	0.00585	1	10/19/2018 18:25	WG1183540
1,2-Dichloropropane	U		0.00149	0.00585	1	10/19/2018 18:25	WG1183540
1,1-Dichloropropene	U		0.000819	0.00292	1	10/19/2018 18:25	WG1183540
1,3-Dichloropropane	U		0.00205	0.00585	1	10/19/2018 18:25	WG1183540
cis-1,3-Dichloropropene	U		0.000793	0.00292	1	10/19/2018 18:25	WG1183540
trans-1,3-Dichloropropene	U	J4	0.00179	0.00585	1	10/19/2018 18:25	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00164	0.00585	1	10/19/2018 18:25	WG1183540
2,2-Dichloropropane	U		0.000927	0.00292	1	10/19/2018 18:25	WG1183540
Di-isopropyl ether	U		0.000409	0.00117	1	10/19/2018 18:25	WG1183540
Ethylbenzene	U	J0	0.000620	0.00292	1	10/19/2018 18:25	WG1183540
Hexachloro-1,3-butadiene	U		0.0149	0.0292	1	10/19/2018 18:25	WG1183540
2-Hexanone	U		0.0117	0.0292	1	10/19/2018 18:25	WG1183540
n-Hexane	U	J0 J4	0.00124	0.00585	1	10/19/2018 18:25	WG1183540
Iodomethane	U		0.00707	0.0146	1	10/19/2018 18:25	WG1183540
Isopropylbenzene	U		0.00101	0.00292	1	10/19/2018 18:25	WG1183540
p-Isopropyltoluene	U		0.00272	0.00585	1	10/19/2018 18:25	WG1183540
2-Butanone (MEK)	0.0576	B J4	0.0146	0.0292	1	10/19/2018 18:25	WG1183540
Methylene Chloride	U		0.00776	0.0292	1	10/19/2018 18:25	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0292	1	10/19/2018 18:25	WG1183540

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/16/18 14:06

L1035515

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000345	0.00117	1	10/19/2018 18:25	WG1183540
Naphthalene	U		0.00365	0.0146	1	10/19/2018 18:25	WG1183540
n-Propylbenzene	U		0.00138	0.00585	1	10/19/2018 18:25	WG1183540
Styrene	U		0.00319	0.0146	1	10/19/2018 18:25	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000585	0.00292	1	10/19/2018 18:25	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000456	0.00292	1	10/23/2018 02:38	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000789	0.00292	1	10/23/2018 02:38	WG1184696
Tetrachloroethene	0.0550		0.000819	0.00292	1	10/23/2018 02:38	WG1184696
Toluene	U		0.00146	0.00585	1	10/19/2018 18:25	WG1183540
1,2,3-Trichlorobenzene	U		0.000731	0.00292	1	10/23/2018 02:38	WG1184696
1,2,4-Trichlorobenzene	U		0.00564	0.0146	1	10/19/2018 18:25	WG1183540
1,1,1-Trichloroethane	U		0.000322	0.00292	1	10/19/2018 18:25	WG1183540
1,1,2-Trichloroethane	U		0.00103	0.00292	1	10/19/2018 18:25	WG1183540
Trichloroethene	0.0532		0.000468	0.00117	1	10/24/2018 16:42	WG1185916
Trichlorofluoromethane	U		0.000585	0.00292	1	10/19/2018 18:25	WG1183540
1,2,3-Trichloropropane	U		0.00596	0.0146	1	10/19/2018 18:25	WG1183540
1,2,4-Trimethylbenzene	U		0.00136	0.00585	1	10/19/2018 18:25	WG1183540
1,2,3-Trimethylbenzene	U		0.00134	0.00585	1	10/19/2018 18:25	WG1183540
1,3,5-Trimethylbenzene	U		0.00126	0.00585	1	10/19/2018 18:25	WG1183540
Vinyl acetate	U		0.00412	0.0146	1	10/19/2018 18:25	WG1183540
Vinyl chloride	0.0123		0.000799	0.00292	1	10/23/2018 02:38	WG1184696
Xylenes, Total	U		0.00559	0.00760	1	10/19/2018 18:25	WG1183540
(S) Toluene-d8	100			75.0-131		10/19/2018 18:25	WG1183540
(S) Toluene-d8	99.7			75.0-131		10/23/2018 02:38	WG1184696
(S) Toluene-d8	126			75.0-131		10/24/2018 16:42	WG1185916
(S) Dibromofluoromethane	93.3			65.0-129		10/19/2018 18:25	WG1183540
(S) Dibromofluoromethane	113			65.0-129		10/23/2018 02:38	WG1184696
(S) Dibromofluoromethane	94.6			65.0-129		10/24/2018 16:42	WG1185916
(S) 4-Bromofluorobenzene	90.4			67.0-138		10/19/2018 18:25	WG1183540
(S) 4-Bromofluorobenzene	121			67.0-138		10/23/2018 02:38	WG1184696
(S) 4-Bromofluorobenzene	90.3			67.0-138		10/24/2018 16:42	WG1185916

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.5		1	10/22/2018 11:24	WG1184403

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0151	0.0276	1	10/23/2018 02:58	WG1184696
Acrylonitrile	U		0.00210	0.0138	1	10/19/2018 18:44	WG1183540
Benzene	U		0.000442	0.00110	1	10/19/2018 18:44	WG1183540
Bromobenzene	U		0.00116	0.0138	1	10/19/2018 18:44	WG1183540
Bromodichloromethane	U		0.000871	0.00276	1	10/19/2018 18:44	WG1183540
Bromochloromethane	U		0.00125	0.00552	1	10/19/2018 18:44	WG1183540
Bromoform	U		0.00661	0.0276	1	10/19/2018 18:44	WG1183540
Bromomethane	U		0.00409	0.0138	1	10/19/2018 18:44	WG1183540
n-Butylbenzene	U		0.00424	0.0138	1	10/19/2018 18:44	WG1183540
sec-Butylbenzene	U		0.00279	0.0138	1	10/19/2018 18:44	WG1183540
tert-Butylbenzene	U		0.00171	0.00552	1	10/19/2018 18:44	WG1183540
Carbon disulfide	U	J0	0.00449	0.0138	1	10/19/2018 18:44	WG1183540
Carbon tetrachloride	U		0.00119	0.00552	1	10/19/2018 18:44	WG1183540
Chlorobenzene	U		0.000633	0.00276	1	10/19/2018 18:44	WG1183540
Chlorodibromomethane	U		0.000497	0.00276	1	10/19/2018 18:44	WG1183540
Chloroethane	U		0.00119	0.00552	1	10/19/2018 18:44	WG1183540
Chloroform	U		0.000458	0.00276	1	10/19/2018 18:44	WG1183540
Chloromethane	U		0.00154	0.0138	1	10/19/2018 18:44	WG1183540
2-Chlorotoluene	U		0.00102	0.00276	1	10/19/2018 18:44	WG1183540
4-Chlorotoluene	U		0.00125	0.00552	1	10/19/2018 18:44	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00563	0.0276	1	10/19/2018 18:44	WG1183540
1,2-Dibromoethane	U		0.000580	0.00276	1	10/19/2018 18:44	WG1183540
Dibromomethane	U		0.00110	0.00552	1	10/19/2018 18:44	WG1183540
1,2-Dichlorobenzene	U		0.00160	0.00552	1	10/19/2018 18:44	WG1183540
1,3-Dichlorobenzene	U		0.00188	0.00552	1	10/19/2018 18:44	WG1183540
1,4-Dichlorobenzene	U		0.00218	0.00552	1	10/19/2018 18:44	WG1183540
Dichlorodifluoromethane	U	J4	0.000904	0.00276	1	10/23/2018 02:58	WG1184696
1,1-Dichloroethane	U		0.000635	0.00276	1	10/19/2018 18:44	WG1183540
1,2-Dichloroethane	U		0.000525	0.00276	1	10/19/2018 18:44	WG1183540
1,1-Dichloroethene	U		0.000552	0.00276	1	10/19/2018 18:44	WG1183540
cis-1,2-Dichloroethene	0.0190		0.000762	0.00276	1	10/23/2018 02:58	WG1184696
trans-1,2-Dichloroethene	U		0.00158	0.00552	1	10/19/2018 18:44	WG1183540
1,2-Dichloropropane	U		0.00140	0.00552	1	10/19/2018 18:44	WG1183540
1,1-Dichloropropene	U		0.000773	0.00276	1	10/19/2018 18:44	WG1183540
1,3-Dichloropropane	U		0.00193	0.00552	1	10/19/2018 18:44	WG1183540
cis-1,3-Dichloropropene	U		0.000749	0.00276	1	10/19/2018 18:44	WG1183540
trans-1,3-Dichloropropene	U	J4	0.00169	0.00552	1	10/19/2018 18:44	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00155	0.00552	1	10/19/2018 18:44	WG1183540
2,2-Dichloropropane	U		0.000876	0.00276	1	10/19/2018 18:44	WG1183540
Di-isopropyl ether	U		0.000387	0.00110	1	10/19/2018 18:44	WG1183540
Ethylbenzene	U	J0	0.000585	0.00276	1	10/19/2018 18:44	WG1183540
Hexachloro-1,3-butadiene	U		0.0140	0.0276	1	10/19/2018 18:44	WG1183540
2-Hexanone	U		0.0110	0.0276	1	10/19/2018 18:44	WG1183540
n-Hexane	0.00347	J JO J4	0.00117	0.00552	1	10/19/2018 18:44	WG1183540
Iodomethane	U		0.00668	0.0138	1	10/19/2018 18:44	WG1183540
Isopropylbenzene	U		0.000953	0.00276	1	10/19/2018 18:44	WG1183540
p-Isopropyltoluene	U		0.00257	0.00552	1	10/19/2018 18:44	WG1183540
2-Butanone (MEK)	0.0448	B J4	0.0138	0.0276	1	10/19/2018 18:44	WG1183540
Methylene Chloride	U		0.00734	0.0276	1	10/19/2018 18:44	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0276	1	10/19/2018 18:44	WG1183540





Collected date/time: 10/16/18 14:05

L1035515

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000326	0.00110	1	10/19/2018 18:44	WG1183540
Naphthalene	U		0.00345	0.0138	1	10/19/2018 18:44	WG1183540
n-Propylbenzene	U		0.00130	0.00552	1	10/19/2018 18:44	WG1183540
Styrene	U		0.00302	0.0138	1	10/19/2018 18:44	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000552	0.00276	1	10/19/2018 18:44	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000431	0.00276	1	10/23/2018 02:58	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000746	0.00276	1	10/23/2018 02:58	WG1184696
Tetrachloroethene	0.0193		0.000773	0.00276	1	10/23/2018 02:58	WG1184696
Toluene	U		0.00138	0.00552	1	10/19/2018 18:44	WG1183540
1,2,3-Trichlorobenzene	U		0.000690	0.00276	1	10/23/2018 02:58	WG1184696
1,2,4-Trichlorobenzene	U		0.00532	0.0138	1	10/19/2018 18:44	WG1183540
1,1,1-Trichloroethane	U		0.000304	0.00276	1	10/19/2018 18:44	WG1183540
1,1,2-Trichloroethane	U		0.000975	0.00276	1	10/19/2018 18:44	WG1183540
Trichloroethene	0.0162		0.000442	0.00110	1	10/24/2018 17:03	WG1185916
Trichlorofluoromethane	U		0.000552	0.00276	1	10/19/2018 18:44	WG1183540
1,2,3-Trichloropropane	U		0.00563	0.0138	1	10/19/2018 18:44	WG1183540
1,2,4-Trimethylbenzene	U		0.00128	0.00552	1	10/19/2018 18:44	WG1183540
1,2,3-Trimethylbenzene	U		0.00127	0.00552	1	10/19/2018 18:44	WG1183540
1,3,5-Trimethylbenzene	U		0.00119	0.00552	1	10/19/2018 18:44	WG1183540
Vinyl acetate	U		0.00389	0.0138	1	10/19/2018 18:44	WG1183540
Vinyl chloride	0.0155		0.000755	0.00276	1	10/23/2018 02:58	WG1184696
Xylenes, Total	U		0.00528	0.00718	1	10/19/2018 18:44	WG1183540
(S) Toluene-d8	104			75.0-131		10/19/2018 18:44	WG1183540
(S) Toluene-d8	101			75.0-131		10/23/2018 02:58	WG1184696
(S) Toluene-d8	134	J1		75.0-131		10/24/2018 17:03	WG1185916
(S) Dibromofluoromethane	93.1			65.0-129		10/19/2018 18:44	WG1183540
(S) Dibromofluoromethane	117			65.0-129		10/23/2018 02:58	WG1184696
(S) Dibromofluoromethane	90.7			65.0-129		10/24/2018 17:03	WG1185916
(S) 4-Bromofluorobenzene	85.9			67.0-138		10/19/2018 18:44	WG1183540
(S) 4-Bromofluorobenzene	119			67.0-138		10/23/2018 02:58	WG1184696
(S) 4-Bromofluorobenzene	90.8			67.0-138		10/24/2018 17:03	WG1185916

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	93.6		1	10/22/2018 10:53	WG1184404

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0146	0.0267	1	10/23/2018 03:18	WG1184696
Acrylonitrile	U		0.00203	0.0134	1	10/19/2018 19:02	WG1183540
Benzene	U		0.000427	0.00107	1	10/19/2018 19:02	WG1183540
Bromobenzene	U		0.00112	0.0134	1	10/19/2018 19:02	WG1183540
Bromodichloromethane	U		0.000842	0.00267	1	10/19/2018 19:02	WG1183540
Bromochloromethane	U		0.00121	0.00534	1	10/19/2018 19:02	WG1183540
Bromoform	U		0.00639	0.0267	1	10/19/2018 19:02	WG1183540
Bromomethane	U		0.00395	0.0134	1	10/19/2018 19:02	WG1183540
n-Butylbenzene	U		0.00410	0.0134	1	10/19/2018 19:02	WG1183540
sec-Butylbenzene	U		0.00270	0.0134	1	10/19/2018 19:02	WG1183540
tert-Butylbenzene	U		0.00166	0.00534	1	10/19/2018 19:02	WG1183540
Carbon disulfide	U	J0	0.00434	0.0134	1	10/19/2018 19:02	WG1183540
Carbon tetrachloride	U		0.00115	0.00534	1	10/19/2018 19:02	WG1183540
Chlorobenzene	U		0.000612	0.00267	1	10/19/2018 19:02	WG1183540
Chlorodibromomethane	U		0.000481	0.00267	1	10/19/2018 19:02	WG1183540
Chloroethane	U		0.00115	0.00534	1	10/19/2018 19:02	WG1183540
Chloroform	U		0.000443	0.00267	1	10/19/2018 19:02	WG1183540
Chloromethane	U		0.00149	0.0134	1	10/19/2018 19:02	WG1183540
2-Chlorotoluene	U		0.000983	0.00267	1	10/19/2018 19:02	WG1183540
4-Chlorotoluene	U		0.00121	0.00534	1	10/19/2018 19:02	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00545	0.0267	1	10/19/2018 19:02	WG1183540
1,2-Dibromoethane	U		0.000561	0.00267	1	10/19/2018 19:02	WG1183540
Dibromomethane	U		0.00107	0.00534	1	10/19/2018 19:02	WG1183540
1,2-Dichlorobenzene	U		0.00155	0.00534	1	10/19/2018 19:02	WG1183540
1,3-Dichlorobenzene	U		0.00182	0.00534	1	10/19/2018 19:02	WG1183540
1,4-Dichlorobenzene	U		0.00211	0.00534	1	10/19/2018 19:02	WG1183540
Dichlorodifluoromethane	U	J4	0.000874	0.00267	1	10/23/2018 03:18	WG1184696
1,1-Dichloroethane	U		0.000614	0.00267	1	10/19/2018 19:02	WG1183540
1,2-Dichloroethane	U		0.000508	0.00267	1	10/19/2018 19:02	WG1183540
1,1-Dichloroethene	0.00420		0.000534	0.00267	1	10/19/2018 19:02	WG1183540
cis-1,2-Dichloroethene	0.548		0.000737	0.00267	1	10/19/2018 19:02	WG1183540
trans-1,2-Dichloroethene	0.00197	J	0.00153	0.00534	1	10/19/2018 19:02	WG1183540
1,2-Dichloropropane	U		0.00136	0.00534	1	10/19/2018 19:02	WG1183540
1,1-Dichloropropene	U		0.000748	0.00267	1	10/19/2018 19:02	WG1183540
1,3-Dichloropropane	U		0.00187	0.00534	1	10/19/2018 19:02	WG1183540
cis-1,3-Dichloropropene	U		0.000724	0.00267	1	10/19/2018 19:02	WG1183540
trans-1,3-Dichloropropene	U	J4	0.00163	0.00534	1	10/19/2018 19:02	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00150	0.00534	1	10/19/2018 19:02	WG1183540
2,2-Dichloropropane	U		0.000847	0.00267	1	10/19/2018 19:02	WG1183540
Di-isopropyl ether	U		0.000374	0.00107	1	10/19/2018 19:02	WG1183540
Ethylbenzene	U	J0	0.000566	0.00267	1	10/19/2018 19:02	WG1183540
Hexachloro-1,3-butadiene	U		0.0136	0.0267	1	10/19/2018 19:02	WG1183540
2-Hexanone	U		0.0107	0.0267	1	10/19/2018 19:02	WG1183540
n-Hexane	0.00527	J J0 J4	0.00113	0.00534	1	10/19/2018 19:02	WG1183540
Iodomethane	U		0.00646	0.0134	1	10/19/2018 19:02	WG1183540
Isopropylbenzene	U		0.000922	0.00267	1	10/19/2018 19:02	WG1183540
p-Isopropyltoluene	U		0.00249	0.00534	1	10/19/2018 19:02	WG1183540
2-Butanone (MEK)	0.0312	B J4	0.0134	0.0267	1	10/19/2018 19:02	WG1183540
Methylene Chloride	U		0.00710	0.0267	1	10/19/2018 19:02	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0267	1	10/19/2018 19:02	WG1183540

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/16/18 14:18

L1035515

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000315	0.00107	1	10/19/2018 19:02	WG1183540
Naphthalene	U		0.00333	0.0134	1	10/19/2018 19:02	WG1183540
n-Propylbenzene	U		0.00126	0.00534	1	10/19/2018 19:02	WG1183540
Styrene	U		0.00292	0.0134	1	10/19/2018 19:02	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000534	0.00267	1	10/19/2018 19:02	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000417	0.00267	1	10/23/2018 03:18	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000721	0.00267	1	10/23/2018 03:18	WG1184696
Tetrachloroethene	0.589		0.000748	0.00267	1	10/19/2018 19:02	WG1183540
Toluene	U		0.00134	0.00534	1	10/19/2018 19:02	WG1183540
1,2,3-Trichlorobenzene	U		0.000668	0.00267	1	10/23/2018 03:18	WG1184696
1,2,4-Trichlorobenzene	U		0.00515	0.0134	1	10/19/2018 19:02	WG1183540
1,1,1-Trichloroethane	U		0.000294	0.00267	1	10/19/2018 19:02	WG1183540
1,1,2-Trichloroethane	U		0.000944	0.00267	1	10/19/2018 19:02	WG1183540
Trichloroethene	0.182		0.000427	0.00107	1	10/19/2018 19:02	WG1183540
Trichlorofluoromethane	U		0.000534	0.00267	1	10/19/2018 19:02	WG1183540
1,2,3-Trichloropropane	U		0.00545	0.0134	1	10/19/2018 19:02	WG1183540
1,2,4-Trimethylbenzene	U		0.00124	0.00534	1	10/19/2018 19:02	WG1183540
1,2,3-Trimethylbenzene	U		0.00123	0.00534	1	10/19/2018 19:02	WG1183540
1,3,5-Trimethylbenzene	U		0.00115	0.00534	1	10/19/2018 19:02	WG1183540
Vinyl acetate	U		0.00376	0.0134	1	10/19/2018 19:02	WG1183540
Vinyl chloride	0.0359		0.000730	0.00267	1	10/23/2018 03:18	WG1184696
Xylenes, Total	U		0.00511	0.00695	1	10/19/2018 19:02	WG1183540
(S) Toluene-d8	102			75.0-131		10/19/2018 19:02	WG1183540
(S) Toluene-d8	99.2			75.0-131		10/23/2018 03:18	WG1184696
(S) Dibromofluoromethane	95.4			65.0-129		10/19/2018 19:02	WG1183540
(S) Dibromofluoromethane	112			65.0-129		10/23/2018 03:18	WG1184696
(S) 4-Bromofluorobenzene	90.0			67.0-138		10/19/2018 19:02	WG1183540
(S) 4-Bromofluorobenzene	119			67.0-138		10/23/2018 03:18	WG1184696

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	90.4		1	10/22/2018 10:53	WG1184404

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0152	0.0277	1	10/23/2018 03:38	WG1184696
Acrylonitrile	U		0.00210	0.0138	1	10/19/2018 19:21	WG1183540
Benzene	U		0.000443	0.00111	1	10/19/2018 19:21	WG1183540
Bromobenzene	U		0.00116	0.0138	1	10/19/2018 19:21	WG1183540
Bromodichloromethane	U		0.000872	0.00277	1	10/19/2018 19:21	WG1183540
Bromochloromethane	U		0.00125	0.00553	1	10/19/2018 19:21	WG1183540
Bromoform	U		0.00662	0.0277	1	10/19/2018 19:21	WG1183540
Bromomethane	U		0.00409	0.0138	1	10/19/2018 19:21	WG1183540
n-Butylbenzene	U		0.00425	0.0138	1	10/19/2018 19:21	WG1183540
sec-Butylbenzene	U		0.00280	0.0138	1	10/19/2018 19:21	WG1183540
tert-Butylbenzene	U		0.00172	0.00553	1	10/19/2018 19:21	WG1183540
Carbon disulfide	U	J0	0.00449	0.0138	1	10/19/2018 19:21	WG1183540
Carbon tetrachloride	U		0.00120	0.00553	1	10/19/2018 19:21	WG1183540
Chlorobenzene	U		0.000634	0.00277	1	10/19/2018 19:21	WG1183540
Chlorodibromomethane	U		0.000498	0.00277	1	10/19/2018 19:21	WG1183540
Chloroethane	U		0.00120	0.00553	1	10/19/2018 19:21	WG1183540
Chloroform	U		0.000459	0.00277	1	10/19/2018 19:21	WG1183540
Chloromethane	U		0.00154	0.0138	1	10/19/2018 19:21	WG1183540
2-Chlorotoluene	U		0.00102	0.00277	1	10/19/2018 19:21	WG1183540
4-Chlorotoluene	U		0.00125	0.00553	1	10/19/2018 19:21	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00564	0.0277	1	10/19/2018 19:21	WG1183540
1,2-Dibromoethane	U		0.000581	0.00277	1	10/19/2018 19:21	WG1183540
Dibromomethane	U		0.00111	0.00553	1	10/19/2018 19:21	WG1183540
1,2-Dichlorobenzene	U		0.00160	0.00553	1	10/19/2018 19:21	WG1183540
1,3-Dichlorobenzene	U		0.00188	0.00553	1	10/19/2018 19:21	WG1183540
1,4-Dichlorobenzene	U		0.00218	0.00553	1	10/19/2018 19:21	WG1183540
Dichlorodifluoromethane	U	J4	0.000905	0.00277	1	10/23/2018 03:38	WG1184696
1,1-Dichloroethane	U		0.000636	0.00277	1	10/19/2018 19:21	WG1183540
1,2-Dichloroethane	U		0.000526	0.00277	1	10/19/2018 19:21	WG1183540
1,1-Dichloroethene	0.00114	J	0.000553	0.00277	1	10/19/2018 19:21	WG1183540
cis-1,2-Dichloroethene	0.768		0.000764	0.00277	1	10/19/2018 19:21	WG1183540
trans-1,2-Dichloroethene	0.00510	J	0.00158	0.00553	1	10/19/2018 19:21	WG1183540
1,2-Dichloropropane	U		0.00141	0.00553	1	10/19/2018 19:21	WG1183540
1,1-Dichloropropene	U		0.000775	0.00277	1	10/19/2018 19:21	WG1183540
1,3-Dichloropropane	U		0.00194	0.00553	1	10/19/2018 19:21	WG1183540
cis-1,3-Dichloropropene	U		0.000750	0.00277	1	10/19/2018 19:21	WG1183540
trans-1,3-Dichloropropene	U	J4	0.00169	0.00553	1	10/19/2018 19:21	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00155	0.00553	1	10/19/2018 19:21	WG1183540
2,2-Dichloropropane	U		0.000878	0.00277	1	10/19/2018 19:21	WG1183540
Di-isopropyl ether	U		0.000387	0.00111	1	10/19/2018 19:21	WG1183540
Ethylbenzene	U	J0	0.000587	0.00277	1	10/19/2018 19:21	WG1183540
Hexachloro-1,3-butadiene	U		0.0141	0.0277	1	10/19/2018 19:21	WG1183540
2-Hexanone	U		0.0111	0.0277	1	10/19/2018 19:21	WG1183540
n-Hexane	0.00313	J J0 J4	0.00117	0.00553	1	10/19/2018 19:21	WG1183540
Iodomethane	U		0.00670	0.0138	1	10/19/2018 19:21	WG1183540
Isopropylbenzene	U		0.000955	0.00277	1	10/19/2018 19:21	WG1183540
p-Isopropyltoluene	U		0.00258	0.00553	1	10/19/2018 19:21	WG1183540
2-Butanone (MEK)	0.0292	B J4	0.0138	0.0277	1	10/19/2018 19:21	WG1183540
Methylene Chloride	U		0.00735	0.0277	1	10/19/2018 19:21	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0277	1	10/19/2018 19:21	WG1183540

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/16/18 14:32

L1035515

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000326	0.00111	1	10/19/2018 19:21	WG1183540
Naphthalene	U		0.00345	0.0138	1	10/19/2018 19:21	WG1183540
n-Propylbenzene	U		0.00131	0.00553	1	10/19/2018 19:21	WG1183540
Styrene	U		0.00302	0.0138	1	10/19/2018 19:21	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000553	0.00277	1	10/19/2018 19:21	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000432	0.00277	1	10/23/2018 03:38	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000747	0.00277	1	10/23/2018 03:38	WG1184696
Tetrachloroethene	0.324		0.000775	0.00277	1	10/19/2018 19:21	WG1183540
Toluene	U		0.00138	0.00553	1	10/19/2018 19:21	WG1183540
1,2,3-Trichlorobenzene	U		0.000692	0.00277	1	10/23/2018 03:38	WG1184696
1,2,4-Trichlorobenzene	U		0.00533	0.0138	1	10/19/2018 19:21	WG1183540
1,1,1-Trichloroethane	U		0.000304	0.00277	1	10/19/2018 19:21	WG1183540
1,1,2-Trichloroethane	U		0.000977	0.00277	1	10/19/2018 19:21	WG1183540
Trichloroethene	0.0863		0.000443	0.00111	1	10/19/2018 19:21	WG1183540
Trichlorofluoromethane	U		0.000553	0.00277	1	10/19/2018 19:21	WG1183540
1,2,3-Trichloropropane	U		0.00564	0.0138	1	10/19/2018 19:21	WG1183540
1,2,4-Trimethylbenzene	U		0.00128	0.00553	1	10/19/2018 19:21	WG1183540
1,2,3-Trimethylbenzene	U		0.00127	0.00553	1	10/19/2018 19:21	WG1183540
1,3,5-Trimethylbenzene	U		0.00120	0.00553	1	10/19/2018 19:21	WG1183540
Vinyl acetate	U		0.00390	0.0138	1	10/19/2018 19:21	WG1183540
Vinyl chloride	0.0715		0.000756	0.00277	1	10/23/2018 03:38	WG1184696
Xylenes, Total	U		0.00529	0.00719	1	10/19/2018 19:21	WG1183540
(S) Toluene-d8	100			75.0-131		10/19/2018 19:21	WG1183540
(S) Toluene-d8	101			75.0-131		10/23/2018 03:38	WG1184696
(S) Dibromofluoromethane	94.4			65.0-129		10/19/2018 19:21	WG1183540
(S) Dibromofluoromethane	114			65.0-129		10/23/2018 03:38	WG1184696
(S) 4-Bromofluorobenzene	91.9			67.0-138		10/19/2018 19:21	WG1183540
(S) 4-Bromofluorobenzene	121			67.0-138		10/23/2018 03:38	WG1184696

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.4		1	10/22/2018 10:53	WG1184404

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0152	0.0277	1	10/23/2018 03:58	WG1184696
Acrylonitrile	U		0.00210	0.0138	1	10/19/2018 19:39	WG1183540
Benzene	U		0.000443	0.00111	1	10/19/2018 19:39	WG1183540
Bromobenzene	U		0.00116	0.0138	1	10/19/2018 19:39	WG1183540
Bromodichloromethane	U		0.000872	0.00277	1	10/19/2018 19:39	WG1183540
Bromochloromethane	U		0.00125	0.00553	1	10/19/2018 19:39	WG1183540
Bromoform	U		0.00662	0.0277	1	10/19/2018 19:39	WG1183540
Bromomethane	U		0.00409	0.0138	1	10/19/2018 19:39	WG1183540
n-Butylbenzene	U		0.00425	0.0138	1	10/19/2018 19:39	WG1183540
sec-Butylbenzene	U		0.00280	0.0138	1	10/19/2018 19:39	WG1183540
tert-Butylbenzene	U		0.00172	0.00553	1	10/19/2018 19:39	WG1183540
Carbon disulfide	U	J0	0.00449	0.0138	1	10/19/2018 19:39	WG1183540
Carbon tetrachloride	U		0.00120	0.00553	1	10/19/2018 19:39	WG1183540
Chlorobenzene	U		0.000634	0.00277	1	10/19/2018 19:39	WG1183540
Chlorodibromomethane	U		0.000498	0.00277	1	10/19/2018 19:39	WG1183540
Chloroethane	U		0.00120	0.00553	1	10/19/2018 19:39	WG1183540
Chloroform	U		0.000459	0.00277	1	10/19/2018 19:39	WG1183540
Chloromethane	U		0.00154	0.0138	1	10/19/2018 19:39	WG1183540
2-Chlorotoluene	U		0.00102	0.00277	1	10/19/2018 19:39	WG1183540
4-Chlorotoluene	U		0.00125	0.00553	1	10/19/2018 19:39	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00564	0.0277	1	10/19/2018 19:39	WG1183540
1,2-Dibromoethane	U		0.000581	0.00277	1	10/19/2018 19:39	WG1183540
Dibromomethane	U		0.00111	0.00553	1	10/19/2018 19:39	WG1183540
1,2-Dichlorobenzene	U		0.00160	0.00553	1	10/19/2018 19:39	WG1183540
1,3-Dichlorobenzene	U		0.00188	0.00553	1	10/19/2018 19:39	WG1183540
1,4-Dichlorobenzene	U		0.00218	0.00553	1	10/19/2018 19:39	WG1183540
Dichlorodifluoromethane	U	J4	0.000905	0.00277	1	10/23/2018 03:58	WG1184696
1,1-Dichloroethane	U		0.000636	0.00277	1	10/19/2018 19:39	WG1183540
1,2-Dichloroethane	U		0.000526	0.00277	1	10/19/2018 19:39	WG1183540
1,1-Dichloroethene	0.000814	J	0.000553	0.00277	1	10/19/2018 19:39	WG1183540
cis-1,2-Dichloroethene	0.143		0.000764	0.00277	1	10/19/2018 19:39	WG1183540
trans-1,2-Dichloroethene	U		0.00158	0.00553	1	10/19/2018 19:39	WG1183540
1,2-Dichloropropane	U		0.00141	0.00553	1	10/19/2018 19:39	WG1183540
1,1-Dichloropropene	U		0.000775	0.00277	1	10/19/2018 19:39	WG1183540
1,3-Dichloropropane	U		0.00194	0.00553	1	10/19/2018 19:39	WG1183540
cis-1,3-Dichloropropene	U		0.000750	0.00277	1	10/19/2018 19:39	WG1183540
trans-1,3-Dichloropropene	U	J4	0.00169	0.00553	1	10/19/2018 19:39	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00155	0.00553	1	10/19/2018 19:39	WG1183540
2,2-Dichloropropane	U		0.000877	0.00277	1	10/19/2018 19:39	WG1183540
Di-isopropyl ether	U		0.000387	0.00111	1	10/19/2018 19:39	WG1183540
Ethylbenzene	U	J0	0.000586	0.00277	1	10/19/2018 19:39	WG1183540
Hexachloro-1,3-butadiene	U		0.0141	0.0277	1	10/19/2018 19:39	WG1183540
2-Hexanone	U		0.0111	0.0277	1	10/19/2018 19:39	WG1183540
n-Hexane	0.00386	J J0 J4	0.00117	0.00553	1	10/19/2018 19:39	WG1183540
Iodomethane	U		0.00669	0.0138	1	10/19/2018 19:39	WG1183540
Isopropylbenzene	U		0.000955	0.00277	1	10/19/2018 19:39	WG1183540
p-Isopropyltoluene	U		0.00258	0.00553	1	10/19/2018 19:39	WG1183540
2-Butanone (MEK)	U	J4	0.0138	0.0277	1	10/19/2018 19:39	WG1183540
Methylene Chloride	U		0.00735	0.0277	1	10/19/2018 19:39	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0277	1	10/19/2018 19:39	WG1183540

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/16/18 14:40

L1035515

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000326	0.00111	1	10/19/2018 19:39	WG1183540
Naphthalene	U		0.00345	0.0138	1	10/19/2018 19:39	WG1183540
n-Propylbenzene	U		0.00131	0.00553	1	10/19/2018 19:39	WG1183540
Styrene	U		0.00302	0.0138	1	10/19/2018 19:39	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000553	0.00277	1	10/19/2018 19:39	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000432	0.00277	1	10/23/2018 03:58	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000747	0.00277	1	10/23/2018 03:58	WG1184696
Tetrachloroethene	0.207		0.000775	0.00277	1	10/19/2018 19:39	WG1183540
Toluene	U		0.00138	0.00553	1	10/19/2018 19:39	WG1183540
1,2,3-Trichlorobenzene	U		0.000692	0.00277	1	10/23/2018 03:58	WG1184696
1,2,4-Trichlorobenzene	U		0.00533	0.0138	1	10/19/2018 19:39	WG1183540
1,1,1-Trichloroethane	U		0.000304	0.00277	1	10/19/2018 19:39	WG1183540
1,1,2-Trichloroethane	U		0.000977	0.00277	1	10/19/2018 19:39	WG1183540
Trichloroethene	0.0126		0.000443	0.00111	1	10/19/2018 19:39	WG1183540
Trichlorofluoromethane	U		0.000553	0.00277	1	10/19/2018 19:39	WG1183540
1,2,3-Trichloropropane	U		0.00564	0.0138	1	10/19/2018 19:39	WG1183540
1,2,4-Trimethylbenzene	U		0.00128	0.00553	1	10/19/2018 19:39	WG1183540
1,2,3-Trimethylbenzene	U		0.00127	0.00553	1	10/19/2018 19:39	WG1183540
1,3,5-Trimethylbenzene	U		0.00120	0.00553	1	10/19/2018 19:39	WG1183540
Vinyl acetate	U		0.00390	0.0138	1	10/19/2018 19:39	WG1183540
Vinyl chloride	0.0170		0.000756	0.00277	1	10/23/2018 03:58	WG1184696
Xylenes, Total	U		0.00529	0.00719	1	10/19/2018 19:39	WG1183540
(S) Toluene-d8	99.5			75.0-131		10/19/2018 19:39	WG1183540
(S) Toluene-d8	98.7			75.0-131		10/23/2018 03:58	WG1184696
(S) Dibromofluoromethane	95.7			65.0-129		10/19/2018 19:39	WG1183540
(S) Dibromofluoromethane	113			65.0-129		10/23/2018 03:58	WG1184696
(S) 4-Bromofluorobenzene	87.2			67.0-138		10/19/2018 19:39	WG1183540
(S) 4-Bromofluorobenzene	121			67.0-138		10/23/2018 03:58	WG1184696

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

L1035515-01,02

Method Blank (MB)

(MB) R3352945-1 10/22/18 11:48

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

Cp

 ${}^2\text{Tc}$

Ss

Cn

⁸⁷Sr

Qc

L1035515-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1035515-01 10/22/18 11:48 • (DUP) R3352945-3 10/22/18 11:48

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	91.7	91.1	1	0.605		10

G|

Al

Sc

Laboratory Control Sample (LCS)

(LCS) R3352945-2 10/22/18 11:48

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Total Solids	50.0	50.0	100	85.0-115	



Total Solids by Method 2540 G-2011

L1035515-03,04,05,06,07,08,09,10,11,12

Method Blank (MB)

(MB) R3353066-1 10/22/18 11:24

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

Cp

 $\frac{2}{T_C}$

Ss

Cn

⁸⁷Sr

Qc

L1035515-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1035515-07 10/22/18 11:24 • (DUP) R3353066-3 10/22/18 11:24

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	87.6	92.6	1	5.64		10

G|

AI

Sc

Laboratory Control Sample (LCS)

(LCS) R3353066-2 10/22/18 11:24

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Total Solids	50.0	50.0	100	85.0-115	



Total Solids by Method 2540 G-2011

L1035515-13,14,15

Method Blank (MB)

(MB) R3353063-1 10/22/18 10:53

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

Cp

 ${}^2\text{Tc}$

Ss

 C_n ⁸⁷Sr

Qc

L1035537-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1035537-06 10/22/18 10:53 • (DUP) R3353063-3 10/22/18 10:53

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	86.6	86.8	1	0.277		10

G|

Al

Sc

Laboratory Control Sample (LCS)

(LCS) R3353063-2 10/22/18 10:53

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

[L1035515-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15](#)

Method Blank (MB)

(MB) R3352821-2 10/19/18 13:07

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3352821-2 10/19/18 13:07

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
n-Hexane	U		0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	0.0212	U	0.0125	0.0250
Methylene Chloride	0.0147	U	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	102			75.0-131
(S) Dibromofluoromethane	95.0			65.0-129
(S) 4-Bromofluorobenzene	89.8			67.0-138

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Cp

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Tc

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Ss

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Cn

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Qc

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Gl

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Al

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Sc

Laboratory Control Sample (LCS)

(LCS) R3352821-1 10/19/18 12:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acrylonitrile	0.625	0.730	117	45.0-153	
Benzene	0.125	0.137	109	70.0-123	
Bromobenzene	0.125	0.108	86.7	73.0-121	

Laboratory Control Sample (LCS)

(LCS) R3352821-1 10/19/18 12:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromodichloromethane	0.125	0.117	93.3	73.0-121	
Bromochloromethane	0.125	0.0971	77.7	77.0-128	
Bromoform	0.125	0.103	82.1	64.0-132	
Bromomethane	0.125	0.149	119	56.0-147	
n-Butylbenzene	0.125	0.0993	79.5	68.0-135	
sec-Butylbenzene	0.125	0.102	82.0	74.0-130	
tert-Butylbenzene	0.125	0.107	85.9	75.0-127	
Carbon disulfide	0.125	0.102	81.8	56.0-133	
Carbon tetrachloride	0.125	0.101	80.8	66.0-128	
Chlorobenzene	0.125	0.103	82.6	76.0-128	
Chlorodibromomethane	0.125	0.123	98.8	74.0-127	
Chloroethane	0.125	0.124	99.1	61.0-134	
Chloroform	0.125	0.110	87.7	72.0-123	
Chloromethane	0.125	0.163	130	51.0-138	
2-Chlorotoluene	0.125	0.115	91.8	75.0-124	
4-Chlorotoluene	0.125	0.108	86.2	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.124	99.1	59.0-130	
1,2-Dibromoethane	0.125	0.111	88.9	74.0-128	
Dibromomethane	0.125	0.116	92.6	75.0-122	
1,2-Dichlorobenzene	0.125	0.123	98.7	76.0-124	
1,3-Dichlorobenzene	0.125	0.105	83.8	76.0-125	
1,4-Dichlorobenzene	0.125	0.105	84.2	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.161	129	45.0-143	
1,1-Dichloroethane	0.125	0.128	102	70.0-127	
1,2-Dichloroethane	0.125	0.122	97.3	65.0-131	
1,1-Dichloroethene	0.125	0.119	94.9	65.0-131	
cis-1,2-Dichloroethene	0.125	0.154	123	73.0-125	
trans-1,2-Dichloroethene	0.125	0.111	88.4	71.0-125	
1,2-Dichloropropane	0.125	0.117	93.7	74.0-125	
1,1-Dichloropropene	0.125	0.136	109	73.0-125	
1,3-Dichloropropane	0.125	0.102	81.6	80.0-125	
cis-1,3-Dichloropropene	0.125	0.128	102	76.0-127	
trans-1,3-Dichloropropene	0.125	0.177	142	73.0-127	J4
2,2-Dichloropropane	0.125	0.118	94.1	59.0-135	
Di-isopropyl ether	0.125	0.121	96.8	60.0-136	
Ethylbenzene	0.125	0.106	85.1	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.182	145	57.0-150	
2-Hexanone	0.625	0.702	112	54.0-147	
n-Hexane	0.125	0.174	139	55.0-137	J4
Iodomethane	0.625	0.655	105	74.0-134	

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Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc



Laboratory Control Sample (LCS)

(LCS) R3352821-1 10/19/18 12:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Isopropylbenzene	0.125	0.110	88.3	72.0-127	
p-Isopropyltoluene	0.125	0.0983	78.6	72.0-133	
2-Butanone (MEK)	0.625	1.01	161	30.0-160	J4
Methylene Chloride	0.125	0.0978	78.2	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.747	120	56.0-143	
Methyl tert-butyl ether	0.125	0.110	88.4	66.0-132	
Naphthalene	0.125	0.120	96.1	59.0-130	
n-Propylbenzene	0.125	0.126	101	74.0-126	
Styrene	0.125	0.112	89.8	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.150	120	74.0-129	
Tetrachloroethene	0.125	0.135	108	70.0-136	
Toluene	0.125	0.115	92.0	75.0-121	
1,2,4-Trichlorobenzene	0.125	0.135	108	62.0-137	
1,1,1-Trichloroethane	0.125	0.132	106	69.0-126	
1,1,2-Trichloroethane	0.125	0.118	94.1	78.0-123	
Trichloroethene	0.125	0.124	99.0	76.0-126	
Trichlorofluoromethane	0.125	0.129	103	61.0-142	
1,2,3-Trichloropropane	0.125	0.118	94.1	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.125	99.9	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.108	86.5	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.118	94.6	73.0-127	
Vinyl acetate	0.625	0.654	105	43.0-159	
Vinyl chloride	0.125	0.201	161	63.0-134	J4
Xylenes, Total	0.375	0.341	90.9	72.0-127	
(S) Toluene-d8			103	75.0-131	
(S) Dibromofluoromethane			94.6	65.0-129	
(S) 4-Bromofluorobenzene			91.2	67.0-138	

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Cp

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Qc

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Method Blank (MB)

(MB) R3353076-2 10/23/18 00:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Dichlorodifluoromethane	U		0.000818	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	0.00130	J	0.000625	0.00250
Vinyl chloride	U		0.000683	0.00250
(S) Toluene-d8	98.5			75.0-131
(S) Dibromofluoromethane	114			65.0-129
(S) 4-Bromofluorobenzene	118			67.0-138

Laboratory Control Sample (LCS)

(LCS) R3353076-1 10/22/18 23:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.766	123	10.0-160	
Dichlorodifluoromethane	0.125	0.206	165	43.0-156	J4
cis-1,2-Dichloroethene	0.125	0.151	121	73.0-125	
1,1,2,2-Tetrachloroethane	0.125	0.120	95.9	68.0-128	
Tetrachloroethene	0.125	0.0982	78.6	70.0-136	
1,1,2-Trichlorotrifluoroethane	0.125	0.152	122	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.123	98.2	59.0-139	
Vinyl chloride	0.125	0.152	122	63.0-134	
(S) Toluene-d8			97.0	75.0-131	
(S) Dibromofluoromethane			121	65.0-129	
(S) 4-Bromofluorobenzene			120	67.0-138	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3353608-2 10/24/18 10:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Trichloroethene	U		0.000400	0.00100
(S) Toluene-d8	123			75.0-131
(S) Dibromofluoromethane	92.9			65.0-129
(S) 4-Bromofluorobenzene	89.9			67.0-138

Laboratory Control Sample (LCS)

(LCS) R3353608-1 10/24/18 09:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Trichloroethene	0.125	0.113	90.7	76.0-126	
(S) Toluene-d8			111	75.0-131	
(S) Dibromofluoromethane			106	65.0-129	
(S) 4-Bromofluorobenzene			96.7	67.0-138	

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, the sample preparation volume or weight values differ from the standard, 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.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J4	The associated batch QC was outside the established quality control range for accuracy.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 G

8 Al

9 Sc



Pace National 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.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

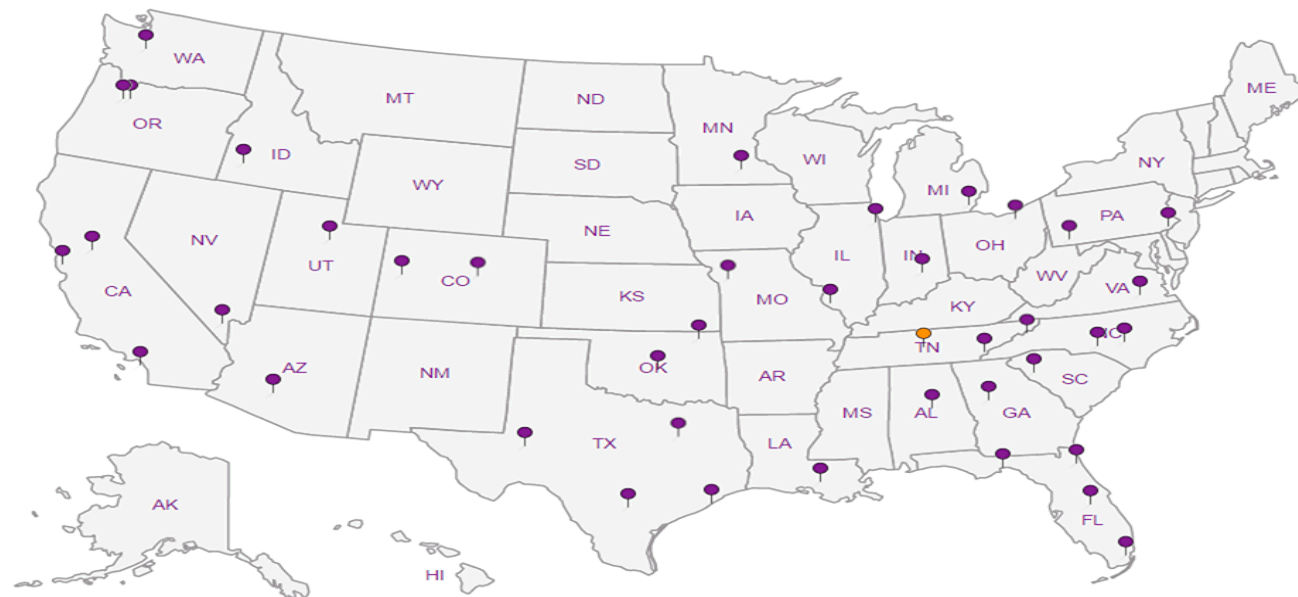
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National 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. Pace National performs all testing at our central laboratory.



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 3 of 3



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



Report to:
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;
bhaldeman@pesenv.com

Project
Description: American Linen

City/State
Collected: Seattle WA

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

Client Project #
1413.001.05

Lab Project #
PESENVSWA-ALP

Collected by (print):
S. McKernan/R. McLaughlin

Site/Facility ID #

P.O. #

Collected by (signature):
R. McLaughlin

Rush? (Lab MUST Be Notified)

Quote #

Same Day ☒ Five Day
Next Day ☐ 5 Day (Rad Only)
Two Day ☐ 10 Day (Rad Only)
Three Day ☐

Date Results Needed

No.
of
Cntrs

Immediately
Packed on Ice N ☒

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOCs V8260C 40mlAmb/MeOH5ml/Syr	dry weight 2ozClr-NoPres	trip VOCs V8260LLC 40mlAmb-HCl-Blk	Remarks	Sample # (lab only)
B-256-8	Grab	SS	8	10/16/18	1420	2				HOLD	
B-256-10		SS	10		1418		X	X			-13
B-256-15		SS	15		1432		X	X			-14
B-256-18	X	SS	18	X	1440	X	X	X			-15
		SS									
		SS									
		SS									
		SS									
		SS									
		SS									
		SS									

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

Remarks:

RAD SCREEN: <0.5 mR/hr

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
☐ UPS ☒ FedEx ☐ Courier

Tracking # 4196 3258 9720

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: 10/16/18 Time: 1620

Received by: (Signature)

Trip Blank Received: ☒ Yes ☐ No
TBR

Relinquished by: (Signature)

Date: _____ Time: _____

Received by: (Signature)

Temp: °C Bottles Received: 23+3=26°C 46

If preservation required by Login: Date/Time:

Relinquished by: (Signature)

Date: _____ Time: _____

Received for lab by: (Signature)

Date: 10/17/18 Time: 0845

Hold:

Condition
NCF / OK

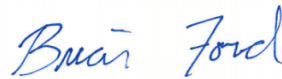
October 25, 2018

PES Environmental, Inc.- WA

Sample Delivery Group: L1036155
Samples Received: 10/18/2018
Project Number: 1413.001.05
Description: American Linen

Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford
Project Manager

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 Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	4
Cn: Case Narrative	10
Sr: Sample Results	11
B-257-5 L1036155-01	11
B-257-10 L1036155-02	13
B-257-15 L1036155-03	15
B-257-20 L1036155-04	17
B-258-3 L1036155-05	19
B-258-8 L1036155-06	21
B-258-10 L1036155-07	23
B-258-15 L1036155-08	25
B-258-20 L1036155-09	27
B-259-2.5 L1036155-10	29
B-259-5 L1036155-11	31
B-259-10 L1036155-12	33
B-259-15 L1036155-13	35
B-259-20 L1036155-14	37
B-260-5 L1036155-15	39
B-260-8 L1036155-16	41
B-260-10 L1036155-17	43
B-260-15 L1036155-18	45
B-260-20 L1036155-19	47
B-261-3 L1036155-20	49
B-261-5 L1036155-21	51
B-261-8 L1036155-22	53
B-261-10 L1036155-23	55
B-261-15 L1036155-24	57
B-261-20 L1036155-25	59
B-262-5 L1036155-26	61
B-262-8 L1036155-27	63
B-262-10 L1036155-28	65
B-262-15 L1036155-29	67
B-262-20 L1036155-30	69
TRIP BLANK L1036155-31	71
Qc: Quality Control Summary	73
Total Solids by Method 2540 G-2011	73
Volatile Organic Compounds (GC/MS) by Method 8260C	77
Gl: Glossary of Terms	98





AI: Accreditations & Locations

Sc: Sample Chain of Custody

99

100

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



B-257-5 L1036155-01 Solid

			Collected by RM / JM	Collected date/time 10/17/18 07:52	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184858	1	10/24/18 12:23	10/24/18 12:36	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183540	1	10/19/18 00:38	10/19/18 19:58	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184696	1	10/19/18 00:38	10/23/18 04:17	DWR

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

B-257-10 L1036155-02 Solid

			Collected by RM / JM	Collected date/time 10/17/18 08:00	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184859	1	10/24/18 10:02	10/24/18 10:10	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183540	1	10/19/18 00:38	10/19/18 20:16	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184696	1	10/19/18 00:38	10/23/18 04:37	DWR

B-257-15 L1036155-03 Solid

			Collected by RM / JM	Collected date/time 10/17/18 08:04	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184859	1	10/24/18 10:02	10/24/18 10:10	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183540	1	10/19/18 00:38	10/19/18 20:34	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184696	1	10/19/18 00:38	10/23/18 04:57	DWR

B-257-20 L1036155-04 Solid

			Collected by RM / JM	Collected date/time 10/17/18 08:10	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184859	1	10/24/18 10:02	10/24/18 10:10	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183540	1	10/19/18 00:38	10/19/18 20:53	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184696	8	10/19/18 00:38	10/23/18 07:38	DWR

B-258-3 L1036155-05 Solid

			Collected by RM / JM	Collected date/time 10/17/18 08:58	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184859	1	10/24/18 10:02	10/24/18 10:10	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183540	1	10/19/18 00:38	10/19/18 21:11	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184696	1	10/19/18 00:38	10/23/18 05:17	DWR

B-258-8 L1036155-06 Solid

			Collected by RM / JM	Collected date/time 10/17/18 09:04	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184859	1	10/24/18 10:02	10/24/18 10:10	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184313	1	10/19/18 00:38	10/21/18 22:57	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185140	1	10/19/18 00:38	10/23/18 16:51	BMB

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B-258-10 L1036155-07 Solid

			Collected by RM / JM	Collected date/time 10/17/18 09:05	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184859	1	10/24/18 10:02	10/24/18 10:10	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184313	1	10/19/18 00:38	10/21/18 23:17	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185140	1	10/19/18 00:38	10/23/18 17:12	BMB

¹ Cp

² Tc

³ Ss

B-258-15 L1036155-08 Solid

			Collected by RM / JM	Collected date/time 10/17/18 09:11	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184859	1	10/24/18 10:02	10/24/18 10:10	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184313	1	10/19/18 00:38	10/21/18 23:37	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185140	20	10/19/18 00:38	10/23/18 20:58	BMB

⁴ Cn

⁵ Sr

⁶ Qc

B-258-20 L1036155-09 Solid

			Collected by RM / JM	Collected date/time 10/17/18 09:15	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184859	1	10/24/18 10:02	10/24/18 10:10	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184313	1	10/19/18 00:38	10/21/18 23:57	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185140	1	10/19/18 00:38	10/23/18 17:32	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185815	4	10/19/18 00:38	10/25/18 00:22	JHH

⁷ Gl

⁸ Al

⁹ Sc

B-259-2.5 L1036155-10 Solid

			Collected by RM / JM	Collected date/time 10/17/18 09:45	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184859	1	10/24/18 10:02	10/24/18 10:10	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184313	1	10/19/18 00:38	10/22/18 00:17	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185140	1	10/19/18 00:38	10/23/18 17:53	BMB

B-259-5 L1036155-11 Solid

			Collected by RM / JM	Collected date/time 10/17/18 09:46	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184859	1	10/24/18 10:02	10/24/18 10:10	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184313	1	10/17/18 09:46	10/22/18 00:38	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185140	1	10/17/18 09:46	10/23/18 18:14	BMB

B-259-10 L1036155-12 Solid

			Collected by RM / JM	Collected date/time 10/17/18 09:50	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184860	1	10/24/18 09:42	10/24/18 10:00	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184313	1	10/17/18 09:50	10/22/18 00:58	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185140	1	10/17/18 09:50	10/23/18 18:35	BMB

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B-259-15 L1036155-13 Solid

			Collected by RM / JM	Collected date/time 10/17/18 09:55	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184860	1	10/24/18 09:42	10/24/18 10:00	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184313	1	10/17/18 09:55	10/22/18 01:18	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185140	1	10/17/18 09:55	10/23/18 18:55	BMB

¹ Cp

² Tc

³ Ss

B-259-20 L1036155-14 Solid

			Collected by RM / JM	Collected date/time 10/17/18 10:05	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184860	1	10/24/18 09:42	10/24/18 10:00	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184313	1	10/17/18 10:05	10/22/18 01:38	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185140	1	10/17/18 10:05	10/23/18 19:16	BMB

⁴ Cn

⁵ Sr

⁶ Qc

B-260-5 L1036155-15 Solid

			Collected by RM / JM	Collected date/time 10/17/18 10:32	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184860	1	10/24/18 09:42	10/24/18 10:00	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184313	1	10/17/18 10:32	10/22/18 01:58	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185140	1	10/17/18 10:32	10/23/18 19:36	BMB

⁷ Gl

⁸ Al

⁹ Sc

B-260-8 L1036155-16 Solid

			Collected by RM / JM	Collected date/time 10/17/18 10:37	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184860	1	10/24/18 09:42	10/24/18 10:00	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184313	1	10/17/18 10:37	10/22/18 02:18	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185140	1	10/17/18 10:37	10/23/18 19:57	BMB

B-260-10 L1036155-17 Solid

			Collected by RM / JM	Collected date/time 10/17/18 10:38	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184860	1	10/24/18 09:42	10/24/18 10:00	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184313	1	10/17/18 10:38	10/22/18 02:38	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185140	1	10/17/18 10:38	10/23/18 20:17	BMB

B-260-15 L1036155-18 Solid

			Collected by RM / JM	Collected date/time 10/17/18 10:45	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184860	1	10/24/18 09:42	10/24/18 10:00	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184313	1	10/17/18 10:45	10/22/18 02:58	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185140	10	10/17/18 10:45	10/23/18 21:18	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185815	80	10/17/18 10:45	10/25/18 00:40	JHH

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B-260-20 L1036155-19 Solid

			Collected by RM / JM	Collected date/time 10/17/18 10:50	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184860	1	10/24/18 09:42	10/24/18 10:00	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184313	1	10/17/18 10:50	10/22/18 03:18	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185140	10	10/17/18 10:50	10/23/18 21:38	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185815	80	10/17/18 10:50	10/25/18 00:59	JHH

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

B-261-3 L1036155-20 Solid

			Collected by RM / JM	Collected date/time 10/17/18 11:18	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184860	1	10/24/18 09:42	10/24/18 10:00	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184313	1	10/17/18 11:18	10/22/18 03:38	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185140	1	10/17/18 11:18	10/23/18 20:37	BMB

B-261-5 L1036155-21 Solid

			Collected by RM / JM	Collected date/time 10/17/18 11:20	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184860	1	10/24/18 09:42	10/24/18 10:00	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184313	1	10/17/18 11:20	10/22/18 03:58	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185140	80	10/17/18 11:20	10/23/18 22:59	BMB

B-261-8 L1036155-22 Solid

			Collected by RM / JM	Collected date/time 10/17/18 11:28	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184862	1	10/24/18 09:33	10/24/18 09:40	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184313	1	10/17/18 11:28	10/22/18 04:18	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185140	10	10/17/18 11:28	10/23/18 21:58	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185815	40	10/17/18 11:28	10/25/18 01:18	JHH

B-261-10 L1036155-23 Solid

			Collected by RM / JM	Collected date/time 10/17/18 11:30	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184862	1	10/24/18 09:33	10/24/18 09:40	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184313	1	10/17/18 11:30	10/22/18 04:38	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185140	40	10/17/18 11:30	10/23/18 22:39	BMB

B-261-15 L1036155-24 Solid

			Collected by RM / JM	Collected date/time 10/17/18 11:40	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184862	1	10/24/18 09:33	10/24/18 09:40	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184313	1	10/17/18 11:40	10/22/18 04:58	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185140	20	10/17/18 11:40	10/23/18 22:19	BMB

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B-261-20 L1036155-25 Solid

			Collected by RM / JM	Collected date/time 10/17/18 11:42	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184862	1	10/24/18 09:33	10/24/18 09:40	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184313	1	10/17/18 11:42	10/22/18 05:18	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185140	200	10/17/18 11:42	10/23/18 23:20	BMF

¹ Cp

² Tc

³ Ss

B-262-5 L1036155-26 Solid

			Collected by RM / JM	Collected date/time 10/17/18 13:32	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184862	1	10/24/18 09:33	10/24/18 09:40	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184455	1	10/17/18 13:32	10/22/18 15:59	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185221	80	10/17/18 13:32	10/24/18 01:06	JHH

⁴ Cn

⁵ Sr

⁶ Qc

B-262-8 L1036155-27 Solid

			Collected by RM / JM	Collected date/time 10/17/18 13:43	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184862	1	10/24/18 09:33	10/24/18 09:40	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184455	1	10/17/18 13:43	10/22/18 16:17	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185221	1	10/17/18 13:43	10/23/18 16:01	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185845	1	10/17/18 13:43	10/24/18 23:43	JHH

⁷ Gl

⁸ Al

⁹ Sc

B-262-10 L1036155-28 Solid

			Collected by RM / JM	Collected date/time 10/17/18 13:45	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184862	1	10/24/18 09:33	10/24/18 09:40	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184455	1	10/17/18 13:45	10/22/18 16:36	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185221	1	10/17/18 13:45	10/23/18 16:21	JHH

B-262-15 L1036155-29 Solid

			Collected by RM / JM	Collected date/time 10/17/18 14:00	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184862	1	10/24/18 09:33	10/24/18 09:40	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184455	1	10/17/18 14:00	10/22/18 16:54	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185221	1	10/17/18 14:00	10/23/18 16:41	JHH

B-262-20 L1036155-30 Solid

			Collected by RM / JM	Collected date/time 10/17/18 14:25	Received date/time 10/18/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184862	1	10/24/18 09:33	10/24/18 09:40	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184455	1	10/17/18 14:25	10/22/18 17:13	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185221	10	10/17/18 14:25	10/24/18 00:06	JHH

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



TRIP BLANK L1036155-31 GW

Collected by
RM / JM

Collected date/time
10/17/18 00:00

Received date/time
10/18/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1183421	1	10/19/18 11:37	10/19/18 11:37	JAH

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

1413.001.05

SDG:

L1036155

DATE/TIME:

10/25/18 17:41

PAGE:

9 of 103



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, 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
Project Manager

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	82.6		1	10/24/2018 12:36	WG1184858

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0166	0.0303	1	10/23/2018 04:17	WG1184696
Acrylonitrile	U		0.00230	0.0151	1	10/19/2018 19:58	WG1183540
Benzene	U		0.000484	0.00121	1	10/19/2018 19:58	WG1183540
Bromobenzene	U		0.00127	0.0151	1	10/19/2018 19:58	WG1183540
Bromodichloromethane	U		0.000954	0.00303	1	10/19/2018 19:58	WG1183540
Bromochloromethane	U		0.00137	0.00605	1	10/19/2018 19:58	WG1183540
Bromoform	U		0.00724	0.0303	1	10/19/2018 19:58	WG1183540
Bromomethane	U		0.00448	0.0151	1	10/19/2018 19:58	WG1183540
n-Butylbenzene	U		0.00465	0.0151	1	10/19/2018 19:58	WG1183540
sec-Butylbenzene	U		0.00306	0.0151	1	10/19/2018 19:58	WG1183540
tert-Butylbenzene	U		0.00188	0.00605	1	10/19/2018 19:58	WG1183540
Carbon disulfide	U	J0	0.00492	0.0151	1	10/19/2018 19:58	WG1183540
Carbon tetrachloride	U		0.00131	0.00605	1	10/19/2018 19:58	WG1183540
Chlorobenzene	U		0.000694	0.00303	1	10/19/2018 19:58	WG1183540
Chlorodibromomethane	U		0.000545	0.00303	1	10/19/2018 19:58	WG1183540
Chloroethane	U		0.00131	0.00605	1	10/19/2018 19:58	WG1183540
Chloroform	U		0.000502	0.00303	1	10/19/2018 19:58	WG1183540
Chloromethane	U		0.00168	0.0151	1	10/19/2018 19:58	WG1183540
2-Chlorotoluene	U		0.00111	0.00303	1	10/19/2018 19:58	WG1183540
4-Chlorotoluene	U		0.00137	0.00605	1	10/19/2018 19:58	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00617	0.0303	1	10/19/2018 19:58	WG1183540
1,2-Dibromoethane	U		0.000636	0.00303	1	10/19/2018 19:58	WG1183540
Dibromomethane	U		0.00121	0.00605	1	10/19/2018 19:58	WG1183540
1,2-Dichlorobenzene	U		0.00176	0.00605	1	10/19/2018 19:58	WG1183540
1,3-Dichlorobenzene	U		0.00206	0.00605	1	10/19/2018 19:58	WG1183540
1,4-Dichlorobenzene	U		0.00239	0.00605	1	10/19/2018 19:58	WG1183540
Dichlorodifluoromethane	U	J4	0.000990	0.00303	1	10/23/2018 04:17	WG1184696
1,1-Dichloroethane	U		0.000696	0.00303	1	10/19/2018 19:58	WG1183540
1,2-Dichloroethane	U		0.000575	0.00303	1	10/19/2018 19:58	WG1183540
1,1-Dichloroethene	U		0.000605	0.00303	1	10/19/2018 19:58	WG1183540
cis-1,2-Dichloroethene	0.0699		0.000835	0.00303	1	10/19/2018 19:58	WG1183540
trans-1,2-Dichloroethene	U		0.00173	0.00605	1	10/19/2018 19:58	WG1183540
1,2-Dichloropropane	U		0.00154	0.00605	1	10/19/2018 19:58	WG1183540
1,1-Dichloropropene	U		0.000848	0.00303	1	10/19/2018 19:58	WG1183540
1,3-Dichloropropane	U		0.00212	0.00605	1	10/19/2018 19:58	WG1183540
cis-1,3-Dichloropropene	U		0.000821	0.00303	1	10/19/2018 19:58	WG1183540
trans-1,3-Dichloropropene	U	J4	0.00185	0.00605	1	10/19/2018 19:58	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00170	0.00605	1	10/19/2018 19:58	WG1183540
2,2-Dichloropropane	U		0.000960	0.00303	1	10/19/2018 19:58	WG1183540
Di-isopropyl ether	U		0.000424	0.00121	1	10/19/2018 19:58	WG1183540
Ethylbenzene	U	J0	0.000642	0.00303	1	10/19/2018 19:58	WG1183540
Hexachloro-1,3-butadiene	U		0.0154	0.0303	1	10/19/2018 19:58	WG1183540
2-Hexanone	U		0.0121	0.0303	1	10/19/2018 19:58	WG1183540
n-Hexane	0.00420	J J0 J4	0.00128	0.00605	1	10/19/2018 19:58	WG1183540
Iodomethane	U		0.00732	0.0151	1	10/19/2018 19:58	WG1183540
Isopropylbenzene	U		0.00104	0.00303	1	10/19/2018 19:58	WG1183540
p-Isopropyltoluene	U		0.00282	0.00605	1	10/19/2018 19:58	WG1183540
2-Butanone (MEK)	0.0553	B J4	0.0151	0.0303	1	10/19/2018 19:58	WG1183540
Methylene Chloride	U		0.00804	0.0303	1	10/19/2018 19:58	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0121	0.0303	1	10/19/2018 19:58	WG1183540





Collected date/time: 10/17/18 07:52

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000357	0.00121	1	10/19/2018 19:58	WG1183540
Naphthalene	U		0.00378	0.0151	1	10/19/2018 19:58	WG1183540
n-Propylbenzene	U		0.00143	0.00605	1	10/19/2018 19:58	WG1183540
Styrene	U		0.00331	0.0151	1	10/19/2018 19:58	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000605	0.00303	1	10/19/2018 19:58	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000472	0.00303	1	10/23/2018 04:17	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000817	0.00303	1	10/23/2018 04:17	WG1184696
Tetrachloroethene	0.0333		0.000848	0.00303	1	10/19/2018 19:58	WG1183540
Toluene	U		0.00151	0.00605	1	10/19/2018 19:58	WG1183540
1,2,3-Trichlorobenzene	U		0.000757	0.00303	1	10/23/2018 04:17	WG1184696
1,2,4-Trichlorobenzene	U		0.00584	0.0151	1	10/19/2018 19:58	WG1183540
1,1,1-Trichloroethane	U		0.000333	0.00303	1	10/19/2018 19:58	WG1183540
1,1,2-Trichloroethane	U		0.00107	0.00303	1	10/19/2018 19:58	WG1183540
Trichloroethene	0.0356		0.000484	0.00121	1	10/19/2018 19:58	WG1183540
Trichlorofluoromethane	U		0.000605	0.00303	1	10/19/2018 19:58	WG1183540
1,2,3-Trichloropropane	U		0.00617	0.0151	1	10/19/2018 19:58	WG1183540
1,2,4-Trimethylbenzene	U		0.00140	0.00605	1	10/19/2018 19:58	WG1183540
1,2,3-Trimethylbenzene	U		0.00139	0.00605	1	10/19/2018 19:58	WG1183540
1,3,5-Trimethylbenzene	U		0.00131	0.00605	1	10/19/2018 19:58	WG1183540
Vinyl acetate	U		0.00426	0.0151	1	10/19/2018 19:58	WG1183540
Vinyl chloride	0.00478		0.000827	0.00303	1	10/23/2018 04:17	WG1184696
Xylenes, Total	U		0.00579	0.00787	1	10/19/2018 19:58	WG1183540
(S) Toluene-d8	101			75.0-131		10/19/2018 19:58	WG1183540
(S) Toluene-d8	100			75.0-131		10/23/2018 04:17	WG1184696
(S) Dibromofluoromethane	94.1			65.0-129		10/19/2018 19:58	WG1183540
(S) Dibromofluoromethane	112			65.0-129		10/23/2018 04:17	WG1184696
(S) 4-Bromofluorobenzene	90.0			67.0-138		10/19/2018 19:58	WG1183540
(S) 4-Bromofluorobenzene	119			67.0-138		10/23/2018 04:17	WG1184696

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	89.6		1	10/24/2018 10:10	WG1184859

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0153	0.0279	1	10/23/2018 04:37	WG1184696
Acrylonitrile	U		0.00212	0.0140	1	10/19/2018 20:16	WG1183540
Benzene	U		0.000447	0.00112	1	10/19/2018 20:16	WG1183540
Bromobenzene	U		0.00117	0.0140	1	10/19/2018 20:16	WG1183540
Bromodichloromethane	U		0.000880	0.00279	1	10/19/2018 20:16	WG1183540
Bromochloromethane	U		0.00126	0.00558	1	10/19/2018 20:16	WG1183540
Bromoform	U		0.00668	0.0279	1	10/19/2018 20:16	WG1183540
Bromomethane	U		0.00413	0.0140	1	10/19/2018 20:16	WG1183540
n-Butylbenzene	U		0.00429	0.0140	1	10/19/2018 20:16	WG1183540
sec-Butylbenzene	U		0.00283	0.0140	1	10/19/2018 20:16	WG1183540
tert-Butylbenzene	U		0.00173	0.00558	1	10/19/2018 20:16	WG1183540
Carbon disulfide	U	J0	0.00453	0.0140	1	10/19/2018 20:16	WG1183540
Carbon tetrachloride	U		0.00121	0.00558	1	10/19/2018 20:16	WG1183540
Chlorobenzene	U		0.000640	0.00279	1	10/19/2018 20:16	WG1183540
Chlorodibromomethane	U		0.000502	0.00279	1	10/19/2018 20:16	WG1183540
Chloroethane	U		0.00121	0.00558	1	10/19/2018 20:16	WG1183540
Chloroform	U		0.000463	0.00279	1	10/19/2018 20:16	WG1183540
Chloromethane	U		0.00155	0.0140	1	10/19/2018 20:16	WG1183540
2-Chlorotoluene	U		0.00103	0.00279	1	10/19/2018 20:16	WG1183540
4-Chlorotoluene	U		0.00126	0.00558	1	10/19/2018 20:16	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00569	0.0279	1	10/19/2018 20:16	WG1183540
1,2-Dibromoethane	U		0.000586	0.00279	1	10/19/2018 20:16	WG1183540
Dibromomethane	U		0.00112	0.00558	1	10/19/2018 20:16	WG1183540
1,2-Dichlorobenzene	U		0.00162	0.00558	1	10/19/2018 20:16	WG1183540
1,3-Dichlorobenzene	U		0.00190	0.00558	1	10/19/2018 20:16	WG1183540
1,4-Dichlorobenzene	U		0.00220	0.00558	1	10/19/2018 20:16	WG1183540
Dichlorodifluoromethane	U	J4	0.000913	0.00279	1	10/23/2018 04:37	WG1184696
1,1-Dichloroethane	U		0.000642	0.00279	1	10/19/2018 20:16	WG1183540
1,2-Dichloroethane	U		0.000530	0.00279	1	10/19/2018 20:16	WG1183540
1,1-Dichloroethene	U		0.000558	0.00279	1	10/19/2018 20:16	WG1183540
cis-1,2-Dichloroethene	0.481		0.000770	0.00279	1	10/19/2018 20:16	WG1183540
trans-1,2-Dichloroethene	0.00474	J	0.00160	0.00558	1	10/19/2018 20:16	WG1183540
1,2-Dichloropropane	U		0.00142	0.00558	1	10/19/2018 20:16	WG1183540
1,1-Dichloropropene	U		0.000782	0.00279	1	10/19/2018 20:16	WG1183540
1,3-Dichloropropane	U		0.00195	0.00558	1	10/19/2018 20:16	WG1183540
cis-1,3-Dichloropropene	U		0.000757	0.00279	1	10/19/2018 20:16	WG1183540
trans-1,3-Dichloropropene	U	J4	0.00171	0.00558	1	10/19/2018 20:16	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00156	0.00558	1	10/19/2018 20:16	WG1183540
2,2-Dichloropropane	U		0.000885	0.00279	1	10/19/2018 20:16	WG1183540
Di-isopropyl ether	U		0.000391	0.00112	1	10/19/2018 20:16	WG1183540
Ethylbenzene	U	J0	0.000592	0.00279	1	10/19/2018 20:16	WG1183540
Hexachloro-1,3-butadiene	U		0.0142	0.0279	1	10/19/2018 20:16	WG1183540
2-Hexanone	U		0.0112	0.0279	1	10/19/2018 20:16	WG1183540
n-Hexane	0.00506	J J0 J4	0.00118	0.00558	1	10/19/2018 20:16	WG1183540
Iodomethane	U		0.00676	0.0140	1	10/19/2018 20:16	WG1183540
Isopropylbenzene	U		0.000964	0.00279	1	10/19/2018 20:16	WG1183540
p-Isopropyltoluene	U		0.00260	0.00558	1	10/19/2018 20:16	WG1183540
2-Butanone (MEK)	0.0232	B J J4	0.0140	0.0279	1	10/19/2018 20:16	WG1183540
Methylene Chloride	U		0.00741	0.0279	1	10/19/2018 20:16	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0279	1	10/19/2018 20:16	WG1183540

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 08:00

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000329	0.00112	1	10/19/2018 20:16	WG1183540
Naphthalene	U		0.00348	0.0140	1	10/19/2018 20:16	WG1183540
n-Propylbenzene	U		0.00132	0.00558	1	10/19/2018 20:16	WG1183540
Styrene	U		0.00305	0.0140	1	10/19/2018 20:16	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000558	0.00279	1	10/19/2018 20:16	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000435	0.00279	1	10/23/2018 04:37	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00279	1	10/23/2018 04:37	WG1184696
Tetrachloroethene	1.75		0.000782	0.00279	1	10/19/2018 20:16	WG1183540
Toluene	U		0.00140	0.00558	1	10/19/2018 20:16	WG1183540
1,2,3-Trichlorobenzene	U		0.000698	0.00279	1	10/23/2018 04:37	WG1184696
1,2,4-Trichlorobenzene	U		0.00538	0.0140	1	10/19/2018 20:16	WG1183540
1,1,1-Trichloroethane	U		0.000307	0.00279	1	10/19/2018 20:16	WG1183540
1,1,2-Trichloroethane	U		0.000986	0.00279	1	10/19/2018 20:16	WG1183540
Trichloroethene	0.183		0.000447	0.00112	1	10/19/2018 20:16	WG1183540
Trichlorofluoromethane	U		0.000558	0.00279	1	10/19/2018 20:16	WG1183540
1,2,3-Trichloropropane	U		0.00569	0.0140	1	10/19/2018 20:16	WG1183540
1,2,4-Trimethylbenzene	U		0.00130	0.00558	1	10/19/2018 20:16	WG1183540
1,2,3-Trimethylbenzene	U		0.00128	0.00558	1	10/19/2018 20:16	WG1183540
1,3,5-Trimethylbenzene	U		0.00121	0.00558	1	10/19/2018 20:16	WG1183540
Vinyl acetate	U		0.00393	0.0140	1	10/19/2018 20:16	WG1183540
Vinyl chloride	0.0252		0.000763	0.00279	1	10/23/2018 04:37	WG1184696
Xylenes, Total	U		0.00534	0.00726	1	10/19/2018 20:16	WG1183540
(S) Toluene-d8	102			75.0-131		10/19/2018 20:16	WG1183540
(S) Toluene-d8	99.5			75.0-131		10/23/2018 04:37	WG1184696
(S) Dibromofluoromethane	93.8			65.0-129		10/19/2018 20:16	WG1183540
(S) Dibromofluoromethane	116			65.0-129		10/23/2018 04:37	WG1184696
(S) 4-Bromofluorobenzene	88.8			67.0-138		10/19/2018 20:16	WG1183540
(S) 4-Bromofluorobenzene	120			67.0-138		10/23/2018 04:37	WG1184696

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.1		1	10/24/2018 10:10	WG1184859

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0159	0.0290	1	10/23/2018 04:57	WG1184696
Acrylonitrile	U		0.00221	0.0145	1	10/19/2018 20:34	WG1183540
Benzene	U		0.000465	0.00116	1	10/19/2018 20:34	WG1183540
Bromobenzene	U		0.00122	0.0145	1	10/19/2018 20:34	WG1183540
Bromodichloromethane	U		0.000915	0.00290	1	10/19/2018 20:34	WG1183540
Bromochloromethane	U		0.00131	0.00581	1	10/19/2018 20:34	WG1183540
Bromoform	U		0.00695	0.0290	1	10/19/2018 20:34	WG1183540
Bromomethane	U		0.00430	0.0145	1	10/19/2018 20:34	WG1183540
n-Butylbenzene	U		0.00446	0.0145	1	10/19/2018 20:34	WG1183540
sec-Butylbenzene	U		0.00294	0.0145	1	10/19/2018 20:34	WG1183540
tert-Butylbenzene	U		0.00180	0.00581	1	10/19/2018 20:34	WG1183540
Carbon disulfide	U	J0	0.00472	0.0145	1	10/19/2018 20:34	WG1183540
Carbon tetrachloride	U		0.00125	0.00581	1	10/19/2018 20:34	WG1183540
Chlorobenzene	U		0.000666	0.00290	1	10/19/2018 20:34	WG1183540
Chlorodibromomethane	U		0.000523	0.00290	1	10/19/2018 20:34	WG1183540
Chloroethane	U		0.00125	0.00581	1	10/19/2018 20:34	WG1183540
Chloroform	U		0.000482	0.00290	1	10/19/2018 20:34	WG1183540
Chloromethane	U		0.00161	0.0145	1	10/19/2018 20:34	WG1183540
2-Chlorotoluene	U		0.00107	0.00290	1	10/19/2018 20:34	WG1183540
4-Chlorotoluene	U		0.00131	0.00581	1	10/19/2018 20:34	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00592	0.0290	1	10/19/2018 20:34	WG1183540
1,2-Dibromoethane	U		0.000610	0.00290	1	10/19/2018 20:34	WG1183540
Dibromomethane	U		0.00116	0.00581	1	10/19/2018 20:34	WG1183540
1,2-Dichlorobenzene	U		0.00168	0.00581	1	10/19/2018 20:34	WG1183540
1,3-Dichlorobenzene	U		0.00197	0.00581	1	10/19/2018 20:34	WG1183540
1,4-Dichlorobenzene	U		0.00229	0.00581	1	10/19/2018 20:34	WG1183540
Dichlorodifluoromethane	U	J4	0.000950	0.00290	1	10/23/2018 04:57	WG1184696
1,1-Dichloroethane	U		0.000668	0.00290	1	10/19/2018 20:34	WG1183540
1,2-Dichloroethane	U		0.000552	0.00290	1	10/19/2018 20:34	WG1183540
1,1-Dichloroethene	0.000652	J	0.000581	0.00290	1	10/19/2018 20:34	WG1183540
cis-1,2-Dichloroethene	0.364		0.000802	0.00290	1	10/19/2018 20:34	WG1183540
trans-1,2-Dichloroethene	0.00411	J	0.00166	0.00581	1	10/19/2018 20:34	WG1183540
1,2-Dichloropropane	U		0.00148	0.00581	1	10/19/2018 20:34	WG1183540
1,1-Dichloropropene	U		0.000813	0.00290	1	10/19/2018 20:34	WG1183540
1,3-Dichloropropane	U		0.00203	0.00581	1	10/19/2018 20:34	WG1183540
cis-1,3-Dichloropropene	U		0.000788	0.00290	1	10/19/2018 20:34	WG1183540
trans-1,3-Dichloropropene	U	J4	0.00178	0.00581	1	10/19/2018 20:34	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00163	0.00581	1	10/19/2018 20:34	WG1183540
2,2-Dichloropropane	U		0.000921	0.00290	1	10/19/2018 20:34	WG1183540
Di-isopropyl ether	U		0.000407	0.00116	1	10/19/2018 20:34	WG1183540
Ethylbenzene	U	J0	0.000616	0.00290	1	10/19/2018 20:34	WG1183540
Hexachloro-1,3-butadiene	U		0.0148	0.0290	1	10/19/2018 20:34	WG1183540
2-Hexanone	U		0.0116	0.0290	1	10/19/2018 20:34	WG1183540
n-Hexane	0.00558	J J0 J4	0.00123	0.00581	1	10/19/2018 20:34	WG1183540
Iodomethane	U		0.00703	0.0145	1	10/19/2018 20:34	WG1183540
Isopropylbenzene	U		0.00100	0.00290	1	10/19/2018 20:34	WG1183540
p-Isopropyltoluene	U		0.00271	0.00581	1	10/19/2018 20:34	WG1183540
2-Butanone (MEK)	0.0225	B J J4	0.0145	0.0290	1	10/19/2018 20:34	WG1183540
Methylene Chloride	U		0.00771	0.0290	1	10/19/2018 20:34	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1	10/19/2018 20:34	WG1183540

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 08:04

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000343	0.00116	1	10/19/2018 20:34	WG1183540
Naphthalene	U		0.00362	0.0145	1	10/19/2018 20:34	WG1183540
n-Propylbenzene	U		0.00137	0.00581	1	10/19/2018 20:34	WG1183540
Styrene	U		0.00317	0.0145	1	10/19/2018 20:34	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000581	0.00290	1	10/19/2018 20:34	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000453	0.00290	1	10/23/2018 04:57	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000784	0.00290	1	10/23/2018 04:57	WG1184696
Tetrachloroethene	1.26		0.000813	0.00290	1	10/19/2018 20:34	WG1183540
Toluene	U		0.00145	0.00581	1	10/19/2018 20:34	WG1183540
1,2,3-Trichlorobenzene	U		0.000726	0.00290	1	10/23/2018 04:57	WG1184696
1,2,4-Trichlorobenzene	U		0.00560	0.0145	1	10/19/2018 20:34	WG1183540
1,1,1-Trichloroethane	U		0.000319	0.00290	1	10/19/2018 20:34	WG1183540
1,1,2-Trichloroethane	U		0.00103	0.00290	1	10/19/2018 20:34	WG1183540
Trichloroethene	0.134		0.000465	0.00116	1	10/19/2018 20:34	WG1183540
Trichlorofluoromethane	U		0.000581	0.00290	1	10/19/2018 20:34	WG1183540
1,2,3-Trichloropropane	U		0.00592	0.0145	1	10/19/2018 20:34	WG1183540
1,2,4-Trimethylbenzene	U		0.00135	0.00581	1	10/19/2018 20:34	WG1183540
1,2,3-Trimethylbenzene	U		0.00134	0.00581	1	10/19/2018 20:34	WG1183540
1,3,5-Trimethylbenzene	U		0.00125	0.00581	1	10/19/2018 20:34	WG1183540
Vinyl acetate	U		0.00409	0.0145	1	10/19/2018 20:34	WG1183540
Vinyl chloride	U		0.000793	0.00290	1	10/23/2018 04:57	WG1184696
Xylenes, Total	U		0.00555	0.00755	1	10/19/2018 20:34	WG1183540
(S) Toluene-d8	104			75.0-131		10/19/2018 20:34	WG1183540
(S) Toluene-d8	99.5			75.0-131		10/23/2018 04:57	WG1184696
(S) Dibromofluoromethane	93.9			65.0-129		10/19/2018 20:34	WG1183540
(S) Dibromofluoromethane	115			65.0-129		10/23/2018 04:57	WG1184696
(S) 4-Bromofluorobenzene	90.1			67.0-138		10/19/2018 20:34	WG1183540
(S) 4-Bromofluorobenzene	120			67.0-138		10/23/2018 04:57	WG1184696

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	89.0		1	10/24/2018 10:10	WG1184859

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.124	0.225	8	10/23/2018 07:38	WG1184696
Acrylonitrile	U		0.00214	0.0140	1	10/19/2018 20:53	WG1183540
Benzene	U		0.000450	0.00112	1	10/19/2018 20:53	WG1183540
Bromobenzene	U		0.00118	0.0140	1	10/19/2018 20:53	WG1183540
Bromodichloromethane	U		0.000886	0.00281	1	10/19/2018 20:53	WG1183540
Bromochloromethane	U		0.00127	0.00562	1	10/19/2018 20:53	WG1183540
Bromoform	U		0.00672	0.0281	1	10/19/2018 20:53	WG1183540
Bromomethane	U		0.00416	0.0140	1	10/19/2018 20:53	WG1183540
n-Butylbenzene	U		0.00432	0.0140	1	10/19/2018 20:53	WG1183540
sec-Butylbenzene	U		0.00284	0.0140	1	10/19/2018 20:53	WG1183540
tert-Butylbenzene	U		0.00174	0.00562	1	10/19/2018 20:53	WG1183540
Carbon disulfide	U	J0	0.00456	0.0140	1	10/19/2018 20:53	WG1183540
Carbon tetrachloride	U		0.00121	0.00562	1	10/19/2018 20:53	WG1183540
Chlorobenzene	U		0.000644	0.00281	1	10/19/2018 20:53	WG1183540
Chlorodibromomethane	U		0.000506	0.00281	1	10/19/2018 20:53	WG1183540
Chloroethane	U		0.00121	0.00562	1	10/19/2018 20:53	WG1183540
Chloroform	U		0.000466	0.00281	1	10/19/2018 20:53	WG1183540
Chloromethane	U		0.00156	0.0140	1	10/19/2018 20:53	WG1183540
2-Chlorotoluene	U		0.00103	0.00281	1	10/19/2018 20:53	WG1183540
4-Chlorotoluene	U		0.00127	0.00562	1	10/19/2018 20:53	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00573	0.0281	1	10/19/2018 20:53	WG1183540
1,2-Dibromoethane	U		0.000590	0.00281	1	10/19/2018 20:53	WG1183540
Dibromomethane	U		0.00112	0.00562	1	10/19/2018 20:53	WG1183540
1,2-Dichlorobenzene	U		0.00163	0.00562	1	10/19/2018 20:53	WG1183540
1,3-Dichlorobenzene	U		0.00191	0.00562	1	10/19/2018 20:53	WG1183540
1,4-Dichlorobenzene	U		0.00221	0.00562	1	10/19/2018 20:53	WG1183540
Dichlorodifluoromethane	U	J4	0.00735	0.0225	8	10/23/2018 07:38	WG1184696
1,1-Dichloroethane	U		0.000646	0.00281	1	10/19/2018 20:53	WG1183540
1,2-Dichloroethane	U		0.000534	0.00281	1	10/19/2018 20:53	WG1183540
1,1-Dichloroethene	0.00801		0.000562	0.00281	1	10/19/2018 20:53	WG1183540
cis-1,2-Dichloroethene	1.67		0.000776	0.00281	1	10/19/2018 20:53	WG1183540
trans-1,2-Dichloroethene	0.00652		0.00161	0.00562	1	10/19/2018 20:53	WG1183540
1,2-Dichloropropane	U		0.00143	0.00562	1	10/19/2018 20:53	WG1183540
1,1-Dichloropropene	U		0.000787	0.00281	1	10/19/2018 20:53	WG1183540
1,3-Dichloropropane	U		0.00197	0.00562	1	10/19/2018 20:53	WG1183540
cis-1,3-Dichloropropene	U		0.000762	0.00281	1	10/19/2018 20:53	WG1183540
trans-1,3-Dichloropropene	U	J4	0.00172	0.00562	1	10/19/2018 20:53	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00157	0.00562	1	10/19/2018 20:53	WG1183540
2,2-Dichloropropane	U		0.000891	0.00281	1	10/19/2018 20:53	WG1183540
Di-isopropyl ether	U		0.000393	0.00112	1	10/19/2018 20:53	WG1183540
Ethylbenzene	U	J0	0.000596	0.00281	1	10/19/2018 20:53	WG1183540
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	10/19/2018 20:53	WG1183540
2-Hexanone	U		0.0112	0.0281	1	10/19/2018 20:53	WG1183540
n-Hexane	0.00569	J0 J4	0.00119	0.00562	1	10/19/2018 20:53	WG1183540
Iodomethane	U		0.00680	0.0140	1	10/19/2018 20:53	WG1183540
Isopropylbenzene	U		0.000970	0.00281	1	10/19/2018 20:53	WG1183540
p-Isopropyltoluene	U		0.00262	0.00562	1	10/19/2018 20:53	WG1183540
2-Butanone (MEK)	0.0273	B J J4	0.0140	0.0281	1	10/19/2018 20:53	WG1183540
Methylene Chloride	U		0.00746	0.0281	1	10/19/2018 20:53	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	10/19/2018 20:53	WG1183540

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 08:10

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000332	0.00112	1	10/19/2018 20:53	WG1183540
Naphthalene	U		0.00351	0.0140	1	10/19/2018 20:53	WG1183540
n-Propylbenzene	U		0.00133	0.00562	1	10/19/2018 20:53	WG1183540
Styrene	U		0.00307	0.0140	1	10/19/2018 20:53	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000562	0.00281	1	10/19/2018 20:53	WG1183540
1,1,2,2-Tetrachloroethane	U		0.00351	0.0225	8	10/23/2018 07:38	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.00607	0.0225	8	10/23/2018 07:38	WG1184696
Tetrachloroethene	2.06		0.00629	0.0225	8	10/23/2018 07:38	WG1184696
Toluene	U		0.00140	0.00562	1	10/19/2018 20:53	WG1183540
1,2,3-Trichlorobenzene	U		0.00562	0.0225	8	10/23/2018 07:38	WG1184696
1,2,4-Trichlorobenzene	U		0.00542	0.0140	1	10/19/2018 20:53	WG1183540
1,1,1-Trichloroethane	U		0.000309	0.00281	1	10/19/2018 20:53	WG1183540
1,1,2-Trichloroethane	U		0.000992	0.00281	1	10/19/2018 20:53	WG1183540
Trichloroethene	0.455		0.000450	0.00112	1	10/19/2018 20:53	WG1183540
Trichlorofluoromethane	U		0.000562	0.00281	1	10/19/2018 20:53	WG1183540
1,2,3-Trichloropropane	U		0.00573	0.0140	1	10/19/2018 20:53	WG1183540
1,2,4-Trimethylbenzene	U		0.00130	0.00562	1	10/19/2018 20:53	WG1183540
1,2,3-Trimethylbenzene	U		0.00129	0.00562	1	10/19/2018 20:53	WG1183540
1,3,5-Trimethylbenzene	U		0.00121	0.00562	1	10/19/2018 20:53	WG1183540
Vinyl acetate	U		0.00396	0.0140	1	10/19/2018 20:53	WG1183540
Vinyl chloride	0.226		0.00614	0.0225	8	10/23/2018 07:38	WG1184696
Xylenes, Total	U		0.00537	0.00731	1	10/19/2018 20:53	WG1183540
(S) Toluene-d8	103			75.0-131		10/19/2018 20:53	WG1183540
(S) Toluene-d8	97.8			75.0-131		10/23/2018 07:38	WG1184696
(S) Dibromofluoromethane	95.2			65.0-129		10/19/2018 20:53	WG1183540
(S) Dibromofluoromethane	118			65.0-129		10/23/2018 07:38	WG1184696
(S) 4-Bromofluorobenzene	90.3			67.0-138		10/19/2018 20:53	WG1183540
(S) 4-Bromofluorobenzene	122			67.0-138		10/23/2018 07:38	WG1184696

Sample Narrative:

L1036155-04 WG1184696, WG1183540: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036155-04 WG1184696, WG1183540: Not all compounds reportable at lower dilution.

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	91.3		1	10/24/2018 10:10	WG1184859

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0150	0.0274	1	10/23/2018 05:17	WG1184696
Acrylonitrile	U		0.00208	0.0137	1	10/19/2018 21:11	WG1183540
Benzene	U		0.000438	0.00110	1	10/19/2018 21:11	WG1183540
Bromobenzene	U		0.00115	0.0137	1	10/19/2018 21:11	WG1183540
Bromodichloromethane	U		0.000863	0.00274	1	10/19/2018 21:11	WG1183540
Bromochloromethane	U		0.00124	0.00548	1	10/19/2018 21:11	WG1183540
Bromoform	U		0.00655	0.0274	1	10/19/2018 21:11	WG1183540
Bromomethane	U		0.00405	0.0137	1	10/19/2018 21:11	WG1183540
n-Butylbenzene	U		0.00421	0.0137	1	10/19/2018 21:11	WG1183540
sec-Butylbenzene	U		0.00277	0.0137	1	10/19/2018 21:11	WG1183540
tert-Butylbenzene	U		0.00170	0.00548	1	10/19/2018 21:11	WG1183540
Carbon disulfide	U	J0	0.00445	0.0137	1	10/19/2018 21:11	WG1183540
Carbon tetrachloride	U		0.00118	0.00548	1	10/19/2018 21:11	WG1183540
Chlorobenzene	U		0.000628	0.00274	1	10/19/2018 21:11	WG1183540
Chlorodibromomethane	U		0.000493	0.00274	1	10/19/2018 21:11	WG1183540
Chloroethane	U		0.00118	0.00548	1	10/19/2018 21:11	WG1183540
Chloroform	0.00130	J	0.000455	0.00274	1	10/19/2018 21:11	WG1183540
Chloromethane	U		0.00152	0.0137	1	10/19/2018 21:11	WG1183540
2-Chlorotoluene	U		0.00101	0.00274	1	10/19/2018 21:11	WG1183540
4-Chlorotoluene	U		0.00124	0.00548	1	10/19/2018 21:11	WG1183540
1,2-Dibromo-3-Chloropropane	U		0.00559	0.0274	1	10/19/2018 21:11	WG1183540
1,2-Dibromoethane	U		0.000575	0.00274	1	10/19/2018 21:11	WG1183540
Dibromomethane	U		0.00110	0.00548	1	10/19/2018 21:11	WG1183540
1,2-Dichlorobenzene	U		0.00159	0.00548	1	10/19/2018 21:11	WG1183540
1,3-Dichlorobenzene	U		0.00186	0.00548	1	10/19/2018 21:11	WG1183540
1,4-Dichlorobenzene	U		0.00216	0.00548	1	10/19/2018 21:11	WG1183540
Dichlorodifluoromethane	U	J4	0.000896	0.00274	1	10/23/2018 05:17	WG1184696
1,1-Dichloroethane	U		0.000630	0.00274	1	10/19/2018 21:11	WG1183540
1,2-Dichloroethane	U		0.000520	0.00274	1	10/19/2018 21:11	WG1183540
1,1-Dichloroethene	U		0.000548	0.00274	1	10/19/2018 21:11	WG1183540
cis-1,2-Dichloroethene	0.0116		0.000756	0.00274	1	10/19/2018 21:11	WG1183540
trans-1,2-Dichloroethene	U		0.00157	0.00548	1	10/19/2018 21:11	WG1183540
1,2-Dichloropropane	U		0.00139	0.00548	1	10/19/2018 21:11	WG1183540
1,1-Dichloropropene	U		0.000767	0.00274	1	10/19/2018 21:11	WG1183540
1,3-Dichloropropane	U		0.00192	0.00548	1	10/19/2018 21:11	WG1183540
cis-1,3-Dichloropropene	U		0.000743	0.00274	1	10/19/2018 21:11	WG1183540
trans-1,3-Dichloropropene	U	J4	0.00168	0.00548	1	10/19/2018 21:11	WG1183540
trans-1,4-Dichloro-2-butene	U		0.00153	0.00548	1	10/19/2018 21:11	WG1183540
2,2-Dichloropropane	U		0.000869	0.00274	1	10/19/2018 21:11	WG1183540
Di-isopropyl ether	U		0.000384	0.00110	1	10/19/2018 21:11	WG1183540
Ethylbenzene	U	J0	0.000581	0.00274	1	10/19/2018 21:11	WG1183540
Hexachloro-1,3-butadiene	U		0.0139	0.0274	1	10/19/2018 21:11	WG1183540
2-Hexanone	U		0.0110	0.0274	1	10/19/2018 21:11	WG1183540
n-Hexane	0.00671	J0 J4	0.00116	0.00548	1	10/19/2018 21:11	WG1183540
Iodomethane	U		0.00663	0.0137	1	10/19/2018 21:11	WG1183540
Isopropylbenzene	U		0.000946	0.00274	1	10/19/2018 21:11	WG1183540
p-Isopropyltoluene	U		0.00255	0.00548	1	10/19/2018 21:11	WG1183540
2-Butanone (MEK)	0.0293	B J4	0.0137	0.0274	1	10/19/2018 21:11	WG1183540
Methylene Chloride	U		0.00728	0.0274	1	10/19/2018 21:11	WG1183540
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0274	1	10/19/2018 21:11	WG1183540

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Collected date/time: 10/17/18 08:58

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000323	0.00110	1	10/19/2018 21:11	WG1183540
Naphthalene	U		0.00342	0.0137	1	10/19/2018 21:11	WG1183540
n-Propylbenzene	U		0.00129	0.00548	1	10/19/2018 21:11	WG1183540
Styrene	U		0.00299	0.0137	1	10/19/2018 21:11	WG1183540
1,1,1,2-Tetrachloroethane	U		0.000548	0.00274	1	10/19/2018 21:11	WG1183540
1,1,2,2-Tetrachloroethane	U		0.000427	0.00274	1	10/23/2018 05:17	WG1184696
1,1,2-Trichlorotrifluoroethane	U		0.000740	0.00274	1	10/23/2018 05:17	WG1184696
Tetrachloroethene	0.0198		0.000767	0.00274	1	10/23/2018 05:17	WG1184696
Toluene	U		0.00137	0.00548	1	10/19/2018 21:11	WG1183540
1,2,3-Trichlorobenzene	U		0.000685	0.00274	1	10/23/2018 05:17	WG1184696
1,2,4-Trichlorobenzene	U		0.00528	0.0137	1	10/19/2018 21:11	WG1183540
1,1,1-Trichloroethane	U		0.000301	0.00274	1	10/19/2018 21:11	WG1183540
1,1,2-Trichloroethane	U		0.000968	0.00274	1	10/19/2018 21:11	WG1183540
Trichloroethene	0.00793		0.000438	0.00110	1	10/19/2018 21:11	WG1183540
Trichlorofluoromethane	U		0.000548	0.00274	1	10/19/2018 21:11	WG1183540
1,2,3-Trichloropropane	U		0.00559	0.0137	1	10/19/2018 21:11	WG1183540
1,2,4-Trimethylbenzene	U		0.00127	0.00548	1	10/19/2018 21:11	WG1183540
1,2,3-Trimethylbenzene	U		0.00126	0.00548	1	10/19/2018 21:11	WG1183540
1,3,5-Trimethylbenzene	U		0.00118	0.00548	1	10/19/2018 21:11	WG1183540
Vinyl acetate	U		0.00386	0.0137	1	10/19/2018 21:11	WG1183540
Vinyl chloride	U		0.000748	0.00274	1	10/23/2018 05:17	WG1184696
Xylenes, Total	U		0.00524	0.00712	1	10/19/2018 21:11	WG1183540
(S) Toluene-d8	100			75.0-131		10/19/2018 21:11	WG1183540
(S) Toluene-d8	99.6			75.0-131		10/23/2018 05:17	WG1184696
(S) Dibromofluoromethane	93.8			65.0-129		10/19/2018 21:11	WG1183540
(S) Dibromofluoromethane	114			65.0-129		10/23/2018 05:17	WG1184696
(S) 4-Bromofluorobenzene	90.5			67.0-138		10/19/2018 21:11	WG1183540
(S) 4-Bromofluorobenzene	119			67.0-138		10/23/2018 05:17	WG1184696

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	87.9		1	10/24/2018 10:10	WG1184859

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0156	0.0284	1	10/21/2018 22:57	WG1184313
Acrylonitrile	U		0.00216	0.0142	1	10/21/2018 22:57	WG1184313
Benzene	U		0.000455	0.00114	1	10/23/2018 16:51	WG1185140
Bromobenzene	U		0.00119	0.0142	1	10/21/2018 22:57	WG1184313
Bromodichloromethane	U		0.000896	0.00284	1	10/21/2018 22:57	WG1184313
Bromochloromethane	U		0.00129	0.00569	1	10/21/2018 22:57	WG1184313
Bromoform	U		0.00680	0.0284	1	10/21/2018 22:57	WG1184313
Bromomethane	U		0.00421	0.0142	1	10/21/2018 22:57	WG1184313
n-Butylbenzene	U		0.00437	0.0142	1	10/21/2018 22:57	WG1184313
sec-Butylbenzene	U		0.00288	0.0142	1	10/21/2018 22:57	WG1184313
tert-Butylbenzene	U		0.00176	0.00569	1	10/21/2018 22:57	WG1184313
Carbon disulfide	U		0.00462	0.0142	1	10/21/2018 22:57	WG1184313
Carbon tetrachloride	U		0.00123	0.00569	1	10/21/2018 22:57	WG1184313
Chlorobenzene	U		0.000652	0.00284	1	10/21/2018 22:57	WG1184313
Chlorodibromomethane	U		0.000512	0.00284	1	10/21/2018 22:57	WG1184313
Chloroethane	U		0.00123	0.00569	1	10/21/2018 22:57	WG1184313
Chloroform	0.00166	B J	0.000472	0.00284	1	10/21/2018 22:57	WG1184313
Chloromethane	U		0.00158	0.0142	1	10/21/2018 22:57	WG1184313
2-Chlorotoluene	U		0.00105	0.00284	1	10/21/2018 22:57	WG1184313
4-Chlorotoluene	U		0.00129	0.00569	1	10/21/2018 22:57	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00580	0.0284	1	10/21/2018 22:57	WG1184313
1,2-Dibromoethane	U		0.000597	0.00284	1	10/21/2018 22:57	WG1184313
Dibromomethane	U		0.00114	0.00569	1	10/21/2018 22:57	WG1184313
1,2-Dichlorobenzene	U		0.00165	0.00569	1	10/21/2018 22:57	WG1184313
1,3-Dichlorobenzene	U		0.00193	0.00569	1	10/21/2018 22:57	WG1184313
1,4-Dichlorobenzene	U		0.00224	0.00569	1	10/21/2018 22:57	WG1184313
Dichlorodifluoromethane	U		0.000930	0.00284	1	10/21/2018 22:57	WG1184313
1,1-Dichloroethane	U		0.000654	0.00284	1	10/21/2018 22:57	WG1184313
1,2-Dichloroethane	U		0.000540	0.00284	1	10/21/2018 22:57	WG1184313
1,1-Dichloroethene	U		0.000569	0.00284	1	10/21/2018 22:57	WG1184313
cis-1,2-Dichloroethene	0.00236	J	0.000785	0.00284	1	10/21/2018 22:57	WG1184313
trans-1,2-Dichloroethene	U		0.00163	0.00569	1	10/21/2018 22:57	WG1184313
1,2-Dichloropropane	U		0.00144	0.00569	1	10/21/2018 22:57	WG1184313
1,1-Dichloropropene	U		0.000796	0.00284	1	10/21/2018 22:57	WG1184313
1,3-Dichloropropane	U		0.00199	0.00569	1	10/21/2018 22:57	WG1184313
cis-1,3-Dichloropropene	U		0.000771	0.00284	1	10/21/2018 22:57	WG1184313
trans-1,3-Dichloropropene	U		0.00174	0.00569	1	10/21/2018 22:57	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00159	0.00569	1	10/21/2018 22:57	WG1184313
2,2-Dichloropropane	U	J4	0.000902	0.00284	1	10/21/2018 22:57	WG1184313
Di-isopropyl ether	U		0.000398	0.00114	1	10/23/2018 16:51	WG1185140
Ethylbenzene	U		0.000603	0.00284	1	10/21/2018 22:57	WG1184313
Hexachloro-1,3-butadiene	U		0.0144	0.0284	1	10/21/2018 22:57	WG1184313
2-Hexanone	U		0.0114	0.0284	1	10/21/2018 22:57	WG1184313
n-Hexane	U		0.00121	0.00569	1	10/21/2018 22:57	WG1184313
Iodomethane	U		0.00688	0.0142	1	10/21/2018 22:57	WG1184313
Isopropylbenzene	U		0.000981	0.00284	1	10/21/2018 22:57	WG1184313
p-Isopropyltoluene	U		0.00265	0.00569	1	10/21/2018 22:57	WG1184313
2-Butanone (MEK)	0.0301		0.0142	0.0284	1	10/21/2018 22:57	WG1184313
Methylene Chloride	U		0.00755	0.0284	1	10/21/2018 22:57	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0284	1	10/21/2018 22:57	WG1184313

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 09:04

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000335	0.00114	1	10/23/2018 16:51	WG1185140
Naphthalene	U		0.00355	0.0142	1	10/21/2018 22:57	WG1184313
n-Propylbenzene	U		0.00134	0.00569	1	10/21/2018 22:57	WG1184313
Styrene	U		0.00310	0.0142	1	10/21/2018 22:57	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000569	0.00284	1	10/21/2018 22:57	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000444	0.00284	1	10/21/2018 22:57	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000768	0.00284	1	10/21/2018 22:57	WG1184313
Tetrachloroethene	0.0619		0.000796	0.00284	1	10/23/2018 16:51	WG1185140
Toluene	U		0.00142	0.00569	1	10/21/2018 22:57	WG1184313
1,2,3-Trichlorobenzene	U		0.000711	0.00284	1	10/21/2018 22:57	WG1184313
1,2,4-Trichlorobenzene	U		0.00548	0.0142	1	10/23/2018 16:51	WG1185140
1,1,1-Trichloroethane	U		0.000313	0.00284	1	10/21/2018 22:57	WG1184313
1,1,2-Trichloroethane	U		0.00100	0.00284	1	10/21/2018 22:57	WG1184313
Trichloroethene	0.00635		0.000455	0.00114	1	10/23/2018 16:51	WG1185140
Trichlorofluoromethane	U		0.000569	0.00284	1	10/21/2018 22:57	WG1184313
1,2,3-Trichloropropane	U		0.00580	0.0142	1	10/21/2018 22:57	WG1184313
1,2,4-Trimethylbenzene	U		0.00132	0.00569	1	10/21/2018 22:57	WG1184313
1,2,3-Trimethylbenzene	U		0.00131	0.00569	1	10/21/2018 22:57	WG1184313
1,3,5-Trimethylbenzene	U		0.00123	0.00569	1	10/21/2018 22:57	WG1184313
Vinyl acetate	U		0.00400	0.0142	1	10/21/2018 22:57	WG1184313
Vinyl chloride	U		0.000777	0.00284	1	10/21/2018 22:57	WG1184313
Xylenes, Total	U		0.00544	0.00739	1	10/21/2018 22:57	WG1184313
(S) Toluene-d8	99.7			75.0-131		10/21/2018 22:57	WG1184313
(S) Toluene-d8	122			75.0-131		10/23/2018 16:51	WG1185140
(S) Dibromofluoromethane	114			65.0-129		10/21/2018 22:57	WG1184313
(S) Dibromofluoromethane	94.1			65.0-129		10/23/2018 16:51	WG1185140
(S) 4-Bromofluorobenzene	121			67.0-138		10/21/2018 22:57	WG1184313
(S) 4-Bromofluorobenzene	87.9			67.0-138		10/23/2018 16:51	WG1185140

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	83.6		1	10/24/2018 10:10	WG1184859

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0164	0.0299	1	10/21/2018 23:17	WG1184313
Acrylonitrile	U		0.00227	0.0150	1	10/21/2018 23:17	WG1184313
Benzene	U		0.000479	0.00120	1	10/23/2018 17:12	WG1185140
Bromobenzene	U		0.00126	0.0150	1	10/21/2018 23:17	WG1184313
Bromodichloromethane	U		0.000943	0.00299	1	10/21/2018 23:17	WG1184313
Bromochloromethane	U		0.00135	0.00598	1	10/21/2018 23:17	WG1184313
Bromoform	U		0.00716	0.0299	1	10/21/2018 23:17	WG1184313
Bromomethane	U		0.00443	0.0150	1	10/21/2018 23:17	WG1184313
n-Butylbenzene	U		0.00460	0.0150	1	10/21/2018 23:17	WG1184313
sec-Butylbenzene	U		0.00303	0.0150	1	10/21/2018 23:17	WG1184313
tert-Butylbenzene	U		0.00185	0.00598	1	10/21/2018 23:17	WG1184313
Carbon disulfide	U		0.00486	0.0150	1	10/21/2018 23:17	WG1184313
Carbon tetrachloride	U		0.00129	0.00598	1	10/21/2018 23:17	WG1184313
Chlorobenzene	U		0.000686	0.00299	1	10/21/2018 23:17	WG1184313
Chlorodibromomethane	U		0.000538	0.00299	1	10/21/2018 23:17	WG1184313
Chloroethane	U		0.00129	0.00598	1	10/21/2018 23:17	WG1184313
Chloroform	0.00168	B J	0.000497	0.00299	1	10/21/2018 23:17	WG1184313
Chloromethane	U		0.00166	0.0150	1	10/21/2018 23:17	WG1184313
2-Chlorotoluene	U		0.00110	0.00299	1	10/21/2018 23:17	WG1184313
4-Chlorotoluene	U		0.00135	0.00598	1	10/21/2018 23:17	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00610	0.0299	1	10/21/2018 23:17	WG1184313
1,2-Dibromoethane	U		0.000628	0.00299	1	10/21/2018 23:17	WG1184313
Dibromomethane	U		0.00120	0.00598	1	10/21/2018 23:17	WG1184313
1,2-Dichlorobenzene	U		0.00174	0.00598	1	10/21/2018 23:17	WG1184313
1,3-Dichlorobenzene	U		0.00203	0.00598	1	10/21/2018 23:17	WG1184313
1,4-Dichlorobenzene	U		0.00236	0.00598	1	10/21/2018 23:17	WG1184313
Dichlorodifluoromethane	U		0.000979	0.00299	1	10/21/2018 23:17	WG1184313
1,1-Dichloroethane	U		0.000688	0.00299	1	10/21/2018 23:17	WG1184313
1,2-Dichloroethane	U		0.000568	0.00299	1	10/21/2018 23:17	WG1184313
1,1-Dichloroethene	U		0.000598	0.00299	1	10/21/2018 23:17	WG1184313
cis-1,2-Dichloroethene	0.00481		0.000826	0.00299	1	10/21/2018 23:17	WG1184313
trans-1,2-Dichloroethene	U		0.00171	0.00598	1	10/21/2018 23:17	WG1184313
1,2-Dichloropropane	U		0.00152	0.00598	1	10/21/2018 23:17	WG1184313
1,1-Dichloropropene	U		0.000838	0.00299	1	10/21/2018 23:17	WG1184313
1,3-Dichloropropane	U		0.00209	0.00598	1	10/21/2018 23:17	WG1184313
cis-1,3-Dichloropropene	U		0.000811	0.00299	1	10/21/2018 23:17	WG1184313
trans-1,3-Dichloropropene	U		0.00183	0.00598	1	10/21/2018 23:17	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00168	0.00598	1	10/21/2018 23:17	WG1184313
2,2-Dichloropropane	U	J4	0.000949	0.00299	1	10/21/2018 23:17	WG1184313
Di-isopropyl ether	U		0.000419	0.00120	1	10/23/2018 17:12	WG1185140
Ethylbenzene	U		0.000634	0.00299	1	10/21/2018 23:17	WG1184313
Hexachloro-1,3-butadiene	U		0.0152	0.0299	1	10/21/2018 23:17	WG1184313
2-Hexanone	U		0.0120	0.0299	1	10/21/2018 23:17	WG1184313
n-Hexane	U		0.00127	0.00598	1	10/21/2018 23:17	WG1184313
Iodomethane	U		0.00724	0.0150	1	10/21/2018 23:17	WG1184313
Isopropylbenzene	U		0.00103	0.00299	1	10/21/2018 23:17	WG1184313
p-Isopropyltoluene	U		0.00279	0.00598	1	10/21/2018 23:17	WG1184313
2-Butanone (MEK)	0.0268	J	0.0150	0.0299	1	10/21/2018 23:17	WG1184313
Methylene Chloride	U		0.00795	0.0299	1	10/21/2018 23:17	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0299	1	10/21/2018 23:17	WG1184313

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 09:05

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000353	0.00120	1	10/23/2018 17:12	WG1185140
Naphthalene	U		0.00373	0.0150	1	10/21/2018 23:17	WG1184313
n-Propylbenzene	U		0.00141	0.00598	1	10/21/2018 23:17	WG1184313
Styrene	U		0.00327	0.0150	1	10/21/2018 23:17	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000598	0.00299	1	10/21/2018 23:17	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000467	0.00299	1	10/21/2018 23:17	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000808	0.00299	1	10/21/2018 23:17	WG1184313
Tetrachloroethene	0.538		0.000838	0.00299	1	10/23/2018 17:12	WG1185140
Toluene	U		0.00150	0.00598	1	10/21/2018 23:17	WG1184313
1,2,3-Trichlorobenzene	U		0.000748	0.00299	1	10/21/2018 23:17	WG1184313
1,2,4-Trichlorobenzene	U		0.00577	0.0150	1	10/23/2018 17:12	WG1185140
1,1,1-Trichloroethane	U		0.000329	0.00299	1	10/21/2018 23:17	WG1184313
1,1,2-Trichloroethane	U		0.00106	0.00299	1	10/21/2018 23:17	WG1184313
Trichloroethene	0.0149		0.000479	0.00120	1	10/23/2018 17:12	WG1185140
Trichlorofluoromethane	U		0.000598	0.00299	1	10/21/2018 23:17	WG1184313
1,2,3-Trichloropropane	U		0.00610	0.0150	1	10/21/2018 23:17	WG1184313
1,2,4-Trimethylbenzene	U		0.00139	0.00598	1	10/21/2018 23:17	WG1184313
1,2,3-Trimethylbenzene	U		0.00138	0.00598	1	10/21/2018 23:17	WG1184313
1,3,5-Trimethylbenzene	U		0.00129	0.00598	1	10/21/2018 23:17	WG1184313
Vinyl acetate	U		0.00421	0.0150	1	10/21/2018 23:17	WG1184313
Vinyl chloride	U		0.000817	0.00299	1	10/21/2018 23:17	WG1184313
Xylenes, Total	U		0.00572	0.00778	1	10/21/2018 23:17	WG1184313
(S) Toluene-d8	98.5			75.0-131		10/21/2018 23:17	WG1184313
(S) Toluene-d8	122			75.0-131		10/23/2018 17:12	WG1185140
(S) Dibromofluoromethane	114			65.0-129		10/21/2018 23:17	WG1184313
(S) Dibromofluoromethane	91.9			65.0-129		10/23/2018 17:12	WG1185140
(S) 4-Bromofluorobenzene	118			67.0-138		10/21/2018 23:17	WG1184313
(S) 4-Bromofluorobenzene	93.9			67.0-138		10/23/2018 17:12	WG1185140

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.7		1	10/24/2018 10:10	WG1184859

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0162	0.0295	1	10/21/2018 23:37	WG1184313
Acrylonitrile	U		0.00224	0.0148	1	10/21/2018 23:37	WG1184313
Benzene	U		0.00944	0.0236	20	10/23/2018 20:58	WG1185140
Bromobenzene	U		0.00124	0.0148	1	10/21/2018 23:37	WG1184313
Bromodichloromethane	U		0.000930	0.00295	1	10/21/2018 23:37	WG1184313
Bromochloromethane	U		0.00133	0.00590	1	10/21/2018 23:37	WG1184313
Bromoform	U		0.00706	0.0295	1	10/21/2018 23:37	WG1184313
Bromomethane	U		0.00437	0.0148	1	10/21/2018 23:37	WG1184313
n-Butylbenzene	U		0.00453	0.0148	1	10/21/2018 23:37	WG1184313
sec-Butylbenzene	U		0.00299	0.0148	1	10/21/2018 23:37	WG1184313
tert-Butylbenzene	U		0.00183	0.00590	1	10/21/2018 23:37	WG1184313
Carbon disulfide	U		0.00479	0.0148	1	10/21/2018 23:37	WG1184313
Carbon tetrachloride	U		0.00127	0.00590	1	10/21/2018 23:37	WG1184313
Chlorobenzene	U		0.000676	0.00295	1	10/21/2018 23:37	WG1184313
Chlorodibromomethane	U		0.000531	0.00295	1	10/21/2018 23:37	WG1184313
Chloroethane	U		0.00127	0.00590	1	10/21/2018 23:37	WG1184313
Chloroform	0.00158	B J	0.000490	0.00295	1	10/21/2018 23:37	WG1184313
Chloromethane	U		0.00164	0.0148	1	10/21/2018 23:37	WG1184313
2-Chlorotoluene	U		0.00109	0.00295	1	10/21/2018 23:37	WG1184313
4-Chlorotoluene	U		0.00133	0.00590	1	10/21/2018 23:37	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00602	0.0295	1	10/21/2018 23:37	WG1184313
1,2-Dibromoethane	U		0.000620	0.00295	1	10/21/2018 23:37	WG1184313
Dibromomethane	U		0.00118	0.00590	1	10/21/2018 23:37	WG1184313
1,2-Dichlorobenzene	U		0.00171	0.00590	1	10/21/2018 23:37	WG1184313
1,3-Dichlorobenzene	U		0.00201	0.00590	1	10/21/2018 23:37	WG1184313
1,4-Dichlorobenzene	U		0.00232	0.00590	1	10/21/2018 23:37	WG1184313
Dichlorodifluoromethane	U		0.000965	0.00295	1	10/21/2018 23:37	WG1184313
1,1-Dichloroethane	U		0.000679	0.00295	1	10/21/2018 23:37	WG1184313
1,2-Dichloroethane	U		0.000561	0.00295	1	10/21/2018 23:37	WG1184313
1,1-Dichloroethene	0.000600	J	0.000590	0.00295	1	10/21/2018 23:37	WG1184313
cis-1,2-Dichloroethene	0.0119		0.000814	0.00295	1	10/21/2018 23:37	WG1184313
trans-1,2-Dichloroethene	U		0.00169	0.00590	1	10/21/2018 23:37	WG1184313
1,2-Dichloropropane	U		0.00150	0.00590	1	10/21/2018 23:37	WG1184313
1,1-Dichloropropene	U		0.000826	0.00295	1	10/21/2018 23:37	WG1184313
1,3-Dichloropropane	U		0.00207	0.00590	1	10/21/2018 23:37	WG1184313
cis-1,3-Dichloropropene	U		0.000800	0.00295	1	10/21/2018 23:37	WG1184313
trans-1,3-Dichloropropene	U		0.00181	0.00590	1	10/21/2018 23:37	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00165	0.00590	1	10/21/2018 23:37	WG1184313
2,2-Dichloropropane	0.000945	J J4	0.000936	0.00295	1	10/21/2018 23:37	WG1184313
Di-isopropyl ether	U		0.00826	0.0236	20	10/23/2018 20:58	WG1185140
Ethylbenzene	U		0.000625	0.00295	1	10/21/2018 23:37	WG1184313
Hexachloro-1,3-butadiene	U		0.0150	0.0295	1	10/21/2018 23:37	WG1184313
2-Hexanone	U		0.0118	0.0295	1	10/21/2018 23:37	WG1184313
n-Hexane	U		0.00125	0.00590	1	10/21/2018 23:37	WG1184313
Iodomethane	U		0.00714	0.0148	1	10/21/2018 23:37	WG1184313
Isopropylbenzene	U		0.00102	0.00295	1	10/21/2018 23:37	WG1184313
p-Isopropyltoluene	U		0.00275	0.00590	1	10/21/2018 23:37	WG1184313
2-Butanone (MEK)	0.0343		0.0148	0.0295	1	10/21/2018 23:37	WG1184313
Methylene Chloride	U		0.00784	0.0295	1	10/21/2018 23:37	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0295	1	10/21/2018 23:37	WG1184313

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 09:11

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00696	0.0236	20	10/23/2018 20:58	WG1185140
Naphthalene	U		0.00368	0.0148	1	10/21/2018 23:37	WG1184313
n-Propylbenzene	U		0.00139	0.00590	1	10/21/2018 23:37	WG1184313
Styrene	U		0.00322	0.0148	1	10/21/2018 23:37	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000590	0.00295	1	10/21/2018 23:37	WG1184313
1,1,2,2-Tetrachloroethane	0.000480	L	0.000460	0.00295	1	10/21/2018 23:37	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000797	0.00295	1	10/21/2018 23:37	WG1184313
Tetrachloroethene	16.2		0.0165	0.0590	20	10/23/2018 20:58	WG1185140
Toluene	U		0.00148	0.00590	1	10/21/2018 23:37	WG1184313
1,2,3-Trichlorobenzene	U		0.000738	0.00295	1	10/21/2018 23:37	WG1184313
1,2,4-Trichlorobenzene	U		0.114	0.295	20	10/23/2018 20:58	WG1185140
1,1,1-Trichloroethane	U		0.000325	0.00295	1	10/21/2018 23:37	WG1184313
1,1,2-Trichloroethane	U		0.00104	0.00295	1	10/21/2018 23:37	WG1184313
Trichloroethene	0.0763		0.00944	0.0236	20	10/23/2018 20:58	WG1185140
Trichlorofluoromethane	U		0.000590	0.00295	1	10/21/2018 23:37	WG1184313
1,2,3-Trichloropropane	U		0.00602	0.0148	1	10/21/2018 23:37	WG1184313
1,2,4-Trimethylbenzene	U		0.00137	0.00590	1	10/21/2018 23:37	WG1184313
1,2,3-Trimethylbenzene	0.00234	L	0.00136	0.00590	1	10/21/2018 23:37	WG1184313
1,3,5-Trimethylbenzene	0.00148	L	0.00127	0.00590	1	10/21/2018 23:37	WG1184313
Vinyl acetate	U		0.00415	0.0148	1	10/21/2018 23:37	WG1184313
Vinyl chloride	U		0.000806	0.00295	1	10/21/2018 23:37	WG1184313
Xylenes, Total	U		0.00564	0.00767	1	10/21/2018 23:37	WG1184313
(S) Toluene-d8	97.6			75.0-131		10/21/2018 23:37	WG1184313
(S) Toluene-d8	116			75.0-131		10/23/2018 20:58	WG1185140
(S) Dibromofluoromethane	112			65.0-129		10/21/2018 23:37	WG1184313
(S) Dibromofluoromethane	101			65.0-129		10/23/2018 20:58	WG1185140
(S) 4-Bromofluorobenzene	120			67.0-138		10/21/2018 23:37	WG1184313
(S) 4-Bromofluorobenzene	91.3			67.0-138		10/23/2018 20:58	WG1185140

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

Sample Narrative:

L1036155-08 WG1184313, WG1185140: Not all compounds reportable at lower dilution.

L1036155-08 WG1184313, WG1185140: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.6		1	10/24/2018 10:10	WG1184859

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0153	0.0279	1	10/21/2018 23:57	WG1184313
Acrylonitrile	U		0.00212	0.0140	1	10/21/2018 23:57	WG1184313
Benzene	U		0.000446	0.00112	1	10/23/2018 17:32	WG1185140
Bromobenzene	U		0.00117	0.0140	1	10/21/2018 23:57	WG1184313
Bromodichloromethane	U		0.000879	0.00279	1	10/21/2018 23:57	WG1184313
Bromochloromethane	U		0.00126	0.00558	1	10/21/2018 23:57	WG1184313
Bromoform	U		0.00667	0.0279	1	10/21/2018 23:57	WG1184313
Bromomethane	U		0.00413	0.0140	1	10/21/2018 23:57	WG1184313
n-Butylbenzene	U		0.00429	0.0140	1	10/21/2018 23:57	WG1184313
sec-Butylbenzene	U		0.00282	0.0140	1	10/21/2018 23:57	WG1184313
tert-Butylbenzene	U		0.00173	0.00558	1	10/21/2018 23:57	WG1184313
Carbon disulfide	U		0.00453	0.0140	1	10/21/2018 23:57	WG1184313
Carbon tetrachloride	U		0.00121	0.00558	1	10/21/2018 23:57	WG1184313
Chlorobenzene	U		0.000640	0.00279	1	10/21/2018 23:57	WG1184313
Chlorodibromomethane	U		0.000502	0.00279	1	10/21/2018 23:57	WG1184313
Chloroethane	U		0.00121	0.00558	1	10/21/2018 23:57	WG1184313
Chloroform	0.00141	B J	0.000463	0.00279	1	10/21/2018 23:57	WG1184313
Chloromethane	U		0.00155	0.0140	1	10/21/2018 23:57	WG1184313
2-Chlorotoluene	U		0.00103	0.00279	1	10/21/2018 23:57	WG1184313
4-Chlorotoluene	U		0.00126	0.00558	1	10/21/2018 23:57	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00569	0.0279	1	10/21/2018 23:57	WG1184313
1,2-Dibromoethane	U		0.000586	0.00279	1	10/21/2018 23:57	WG1184313
Dibromomethane	U		0.00112	0.00558	1	10/21/2018 23:57	WG1184313
1,2-Dichlorobenzene	U		0.00162	0.00558	1	10/21/2018 23:57	WG1184313
1,3-Dichlorobenzene	U		0.00190	0.00558	1	10/21/2018 23:57	WG1184313
1,4-Dichlorobenzene	U		0.00220	0.00558	1	10/21/2018 23:57	WG1184313
Dichlorodifluoromethane	U		0.000913	0.00279	1	10/21/2018 23:57	WG1184313
1,1-Dichloroethane	U		0.000642	0.00279	1	10/21/2018 23:57	WG1184313
1,2-Dichloroethane	U		0.000530	0.00279	1	10/21/2018 23:57	WG1184313
1,1-Dichloroethene	U		0.000558	0.00279	1	10/21/2018 23:57	WG1184313
cis-1,2-Dichloroethene	0.0135		0.000770	0.00279	1	10/21/2018 23:57	WG1184313
trans-1,2-Dichloroethene	U		0.00160	0.00558	1	10/21/2018 23:57	WG1184313
1,2-Dichloropropane	U		0.00142	0.00558	1	10/21/2018 23:57	WG1184313
1,1-Dichloropropene	U		0.000781	0.00279	1	10/21/2018 23:57	WG1184313
1,3-Dichloropropane	U		0.00195	0.00558	1	10/21/2018 23:57	WG1184313
cis-1,3-Dichloropropene	U		0.000757	0.00279	1	10/21/2018 23:57	WG1184313
trans-1,3-Dichloropropene	U		0.00171	0.00558	1	10/21/2018 23:57	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00156	0.00558	1	10/21/2018 23:57	WG1184313
2,2-Dichloropropane	U	J4	0.000885	0.00279	1	10/21/2018 23:57	WG1184313
Di-isopropyl ether	U		0.000391	0.00112	1	10/23/2018 17:32	WG1185140
Ethylbenzene	U		0.000592	0.00279	1	10/21/2018 23:57	WG1184313
Hexachloro-1,3-butadiene	U		0.0142	0.0279	1	10/21/2018 23:57	WG1184313
2-Hexanone	U		0.0112	0.0279	1	10/21/2018 23:57	WG1184313
n-Hexane	U		0.00118	0.00558	1	10/21/2018 23:57	WG1184313
Iodomethane	U		0.00675	0.0140	1	10/21/2018 23:57	WG1184313
Isopropylbenzene	U		0.000963	0.00279	1	10/21/2018 23:57	WG1184313
p-Isopropyltoluene	U		0.00260	0.00558	1	10/21/2018 23:57	WG1184313
2-Butanone (MEK)	0.0211	J	0.0140	0.0279	1	10/21/2018 23:57	WG1184313
Methylene Chloride	U		0.00741	0.0279	1	10/21/2018 23:57	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0279	1	10/21/2018 23:57	WG1184313

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 09:15

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000329	0.00112	1	10/23/2018 17:32	WG1185140
Naphthalene	U		0.00348	0.0140	1	10/21/2018 23:57	WG1184313
n-Propylbenzene	U		0.00132	0.00558	1	10/21/2018 23:57	WG1184313
Styrene	U		0.00305	0.0140	1	10/21/2018 23:57	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000558	0.00279	1	10/21/2018 23:57	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000435	0.00279	1	10/21/2018 23:57	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000753	0.00279	1	10/21/2018 23:57	WG1184313
Tetrachloroethene	3.71		0.00313	0.0112	4	10/25/2018 00:22	WG1185815
Toluene	U		0.00140	0.00558	1	10/21/2018 23:57	WG1184313
1,2,3-Trichlorobenzene	U		0.000698	0.00279	1	10/21/2018 23:57	WG1184313
1,2,4-Trichlorobenzene	U		0.00538	0.0140	1	10/23/2018 17:32	WG1185140
1,1,1-Trichloroethane	U		0.000307	0.00279	1	10/21/2018 23:57	WG1184313
1,1,2-Trichloroethane	U		0.000986	0.00279	1	10/21/2018 23:57	WG1184313
Trichloroethene	0.0117		0.000446	0.00112	1	10/23/2018 17:32	WG1185140
Trichlorofluoromethane	U		0.000558	0.00279	1	10/21/2018 23:57	WG1184313
1,2,3-Trichloropropane	U		0.00569	0.0140	1	10/21/2018 23:57	WG1184313
1,2,4-Trimethylbenzene	U		0.00129	0.00558	1	10/21/2018 23:57	WG1184313
1,2,3-Trimethylbenzene	U		0.00128	0.00558	1	10/21/2018 23:57	WG1184313
1,3,5-Trimethylbenzene	U		0.00121	0.00558	1	10/21/2018 23:57	WG1184313
Vinyl acetate	U		0.00393	0.0140	1	10/21/2018 23:57	WG1184313
Vinyl chloride	U		0.000762	0.00279	1	10/21/2018 23:57	WG1184313
Xylenes, Total	U		0.00533	0.00725	1	10/21/2018 23:57	WG1184313
(S) Toluene-d8	98.8			75.0-131		10/21/2018 23:57	WG1184313
(S) Toluene-d8	126			75.0-131		10/23/2018 17:32	WG1185140
(S) Toluene-d8	104			75.0-131		10/25/2018 00:22	WG1185815
(S) Dibromofluoromethane	113			65.0-129		10/21/2018 23:57	WG1184313
(S) Dibromofluoromethane	92.9			65.0-129		10/23/2018 17:32	WG1185140
(S) Dibromofluoromethane	100			65.0-129		10/25/2018 00:22	WG1185815
(S) 4-Bromofluorobenzene	119			67.0-138		10/21/2018 23:57	WG1184313
(S) 4-Bromofluorobenzene	87.7			67.0-138		10/23/2018 17:32	WG1185140
(S) 4-Bromofluorobenzene	103			67.0-138		10/25/2018 00:22	WG1185815

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.8		1	10/24/2018 10:10	WG1184859

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0154	0.0281	1	10/22/2018 00:17	WG1184313
Acrylonitrile	U		0.00214	0.0141	1	10/22/2018 00:17	WG1184313
Benzene	U		0.000450	0.00113	1	10/23/2018 17:53	WG1185140
Bromobenzene	U		0.00118	0.0141	1	10/22/2018 00:17	WG1184313
Bromodichloromethane	U		0.000887	0.00281	1	10/22/2018 00:17	WG1184313
Bromochloromethane	U		0.00127	0.00563	1	10/22/2018 00:17	WG1184313
Bromoform	U		0.00673	0.0281	1	10/22/2018 00:17	WG1184313
Bromomethane	U		0.00416	0.0141	1	10/22/2018 00:17	WG1184313
n-Butylbenzene	U		0.00432	0.0141	1	10/22/2018 00:17	WG1184313
sec-Butylbenzene	U		0.00285	0.0141	1	10/22/2018 00:17	WG1184313
tert-Butylbenzene	U		0.00174	0.00563	1	10/22/2018 00:17	WG1184313
Carbon disulfide	U		0.00457	0.0141	1	10/22/2018 00:17	WG1184313
Carbon tetrachloride	U		0.00122	0.00563	1	10/22/2018 00:17	WG1184313
Chlorobenzene	U		0.000645	0.00281	1	10/22/2018 00:17	WG1184313
Chlorodibromomethane	U		0.000506	0.00281	1	10/22/2018 00:17	WG1184313
Chloroethane	U		0.00122	0.00563	1	10/22/2018 00:17	WG1184313
Chloroform	0.00211	B J	0.000467	0.00281	1	10/22/2018 00:17	WG1184313
Chloromethane	U		0.00156	0.0141	1	10/22/2018 00:17	WG1184313
2-Chlorotoluene	U		0.00104	0.00281	1	10/22/2018 00:17	WG1184313
4-Chlorotoluene	U		0.00127	0.00563	1	10/22/2018 00:17	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00574	0.0281	1	10/22/2018 00:17	WG1184313
1,2-Dibromoethane	U		0.000591	0.00281	1	10/22/2018 00:17	WG1184313
Dibromomethane	U		0.00113	0.00563	1	10/22/2018 00:17	WG1184313
1,2-Dichlorobenzene	U		0.00163	0.00563	1	10/22/2018 00:17	WG1184313
1,3-Dichlorobenzene	U		0.00191	0.00563	1	10/22/2018 00:17	WG1184313
1,4-Dichlorobenzene	U		0.00222	0.00563	1	10/22/2018 00:17	WG1184313
Dichlorodifluoromethane	U		0.000921	0.00281	1	10/22/2018 00:17	WG1184313
1,1-Dichloroethane	U		0.000647	0.00281	1	10/22/2018 00:17	WG1184313
1,2-Dichloroethane	U		0.000535	0.00281	1	10/22/2018 00:17	WG1184313
1,1-Dichloroethene	U		0.000563	0.00281	1	10/22/2018 00:17	WG1184313
cis-1,2-Dichloroethene	0.00815		0.000777	0.00281	1	10/22/2018 00:17	WG1184313
trans-1,2-Dichloroethene	U		0.00161	0.00563	1	10/22/2018 00:17	WG1184313
1,2-Dichloropropane	U		0.00143	0.00563	1	10/22/2018 00:17	WG1184313
1,1-Dichloropropene	U		0.000788	0.00281	1	10/22/2018 00:17	WG1184313
1,3-Dichloropropane	U		0.00197	0.00563	1	10/22/2018 00:17	WG1184313
cis-1,3-Dichloropropene	U		0.000763	0.00281	1	10/22/2018 00:17	WG1184313
trans-1,3-Dichloropropene	U		0.00172	0.00563	1	10/22/2018 00:17	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00158	0.00563	1	10/22/2018 00:17	WG1184313
2,2-Dichloropropane	U	J4	0.000893	0.00281	1	10/22/2018 00:17	WG1184313
Di-isopropyl ether	U		0.000394	0.00113	1	10/23/2018 17:53	WG1185140
Ethylbenzene	U		0.000597	0.00281	1	10/22/2018 00:17	WG1184313
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	10/22/2018 00:17	WG1184313
2-Hexanone	U		0.0113	0.0281	1	10/22/2018 00:17	WG1184313
n-Hexane	0.00602		0.00119	0.00563	1	10/22/2018 00:17	WG1184313
Iodomethane	U		0.00681	0.0141	1	10/22/2018 00:17	WG1184313
Isopropylbenzene	U		0.000971	0.00281	1	10/22/2018 00:17	WG1184313
p-Isopropyltoluene	U		0.00262	0.00563	1	10/22/2018 00:17	WG1184313
2-Butanone (MEK)	0.0274	J	0.0141	0.0281	1	10/22/2018 00:17	WG1184313
Methylene Chloride	U		0.00747	0.0281	1	10/22/2018 00:17	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0281	1	10/22/2018 00:17	WG1184313

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 09:45

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000332	0.00113	1	10/23/2018 17:53	WG1185140
Naphthalene	U		0.00351	0.0141	1	10/22/2018 00:17	WG1184313
n-Propylbenzene	U		0.00133	0.00563	1	10/22/2018 00:17	WG1184313
Styrene	U		0.00307	0.0141	1	10/22/2018 00:17	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000563	0.00281	1	10/22/2018 00:17	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000439	0.00281	1	10/22/2018 00:17	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000760	0.00281	1	10/22/2018 00:17	WG1184313
Tetrachloroethene	0.0784		0.000788	0.00281	1	10/23/2018 17:53	WG1185140
Toluene	0.00189	L	0.00141	0.00563	1	10/22/2018 00:17	WG1184313
1,2,3-Trichlorobenzene	U		0.000703	0.00281	1	10/22/2018 00:17	WG1184313
1,2,4-Trichlorobenzene	U		0.00542	0.0141	1	10/23/2018 17:53	WG1185140
1,1,1-Trichloroethane	U		0.000310	0.00281	1	10/22/2018 00:17	WG1184313
1,1,2-Trichloroethane	0.00199	L	0.000994	0.00281	1	10/22/2018 00:17	WG1184313
Trichloroethene	0.00504		0.000450	0.00113	1	10/23/2018 17:53	WG1185140
Trichlorofluoromethane	U		0.000563	0.00281	1	10/22/2018 00:17	WG1184313
1,2,3-Trichloropropane	U		0.00574	0.0141	1	10/22/2018 00:17	WG1184313
1,2,4-Trimethylbenzene	U		0.00131	0.00563	1	10/22/2018 00:17	WG1184313
1,2,3-Trimethylbenzene	U		0.00129	0.00563	1	10/22/2018 00:17	WG1184313
1,3,5-Trimethylbenzene	U		0.00122	0.00563	1	10/22/2018 00:17	WG1184313
Vinyl acetate	U		0.00396	0.0141	1	10/22/2018 00:17	WG1184313
Vinyl chloride	U		0.000769	0.00281	1	10/22/2018 00:17	WG1184313
Xylenes, Total	U		0.00538	0.00732	1	10/22/2018 00:17	WG1184313
(S) Toluene-d8	101			75.0-131		10/22/2018 00:17	WG1184313
(S) Toluene-d8	128			75.0-131		10/23/2018 17:53	WG1185140
(S) Dibromofluoromethane	113			65.0-129		10/22/2018 00:17	WG1184313
(S) Dibromofluoromethane	89.5			65.0-129		10/23/2018 17:53	WG1185140
(S) 4-Bromofluorobenzene	119			67.0-138		10/22/2018 00:17	WG1184313
(S) 4-Bromofluorobenzene	99.3			67.0-138		10/23/2018 17:53	WG1185140

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



Collected date/time: 10/17/18 09:46

L1036155

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.3		1	10/24/2018 10:10	WG1184859

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0150	0.0274	1	10/22/2018 00:38	WG1184313
Acrylonitrile	U		0.00208	0.0137	1	10/22/2018 00:38	WG1184313
Benzene	U		0.000438	0.00110	1	10/23/2018 18:14	WG1185140
Bromobenzene	U		0.00115	0.0137	1	10/22/2018 00:38	WG1184313
Bromodichloromethane	U		0.000864	0.00274	1	10/22/2018 00:38	WG1184313
Bromochloromethane	U		0.00124	0.00548	1	10/22/2018 00:38	WG1184313
Bromoform	U		0.00655	0.0274	1	10/22/2018 00:38	WG1184313
Bromomethane	U		0.00405	0.0137	1	10/22/2018 00:38	WG1184313
n-Butylbenzene	U		0.00421	0.0137	1	10/22/2018 00:38	WG1184313
sec-Butylbenzene	U		0.00277	0.0137	1	10/22/2018 00:38	WG1184313
tert-Butylbenzene	U		0.00170	0.00548	1	10/22/2018 00:38	WG1184313
Carbon disulfide	U		0.00445	0.0137	1	10/22/2018 00:38	WG1184313
Carbon tetrachloride	U		0.00118	0.00548	1	10/22/2018 00:38	WG1184313
Chlorobenzene	U		0.000628	0.00274	1	10/22/2018 00:38	WG1184313
Chlorodibromomethane	U		0.000493	0.00274	1	10/22/2018 00:38	WG1184313
Chloroethane	U		0.00118	0.00548	1	10/22/2018 00:38	WG1184313
Chloroform	0.00140	B J	0.000455	0.00274	1	10/22/2018 00:38	WG1184313
Chloromethane	U		0.00152	0.0137	1	10/22/2018 00:38	WG1184313
2-Chlorotoluene	U		0.00101	0.00274	1	10/22/2018 00:38	WG1184313
4-Chlorotoluene	U		0.00124	0.00548	1	10/22/2018 00:38	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00559	0.0274	1	10/22/2018 00:38	WG1184313
1,2-Dibromoethane	U		0.000575	0.00274	1	10/22/2018 00:38	WG1184313
Dibromomethane	U		0.00110	0.00548	1	10/22/2018 00:38	WG1184313
1,2-Dichlorobenzene	U		0.00159	0.00548	1	10/22/2018 00:38	WG1184313
1,3-Dichlorobenzene	U		0.00186	0.00548	1	10/22/2018 00:38	WG1184313
1,4-Dichlorobenzene	U		0.00216	0.00548	1	10/22/2018 00:38	WG1184313
Dichlorodifluoromethane	U		0.000896	0.00274	1	10/22/2018 00:38	WG1184313
1,1-Dichloroethane	U		0.000630	0.00274	1	10/22/2018 00:38	WG1184313
1,2-Dichloroethane	U		0.000521	0.00274	1	10/22/2018 00:38	WG1184313
1,1-Dichloroethene	U		0.000548	0.00274	1	10/22/2018 00:38	WG1184313
cis-1,2-Dichloroethene	0.0696		0.000756	0.00274	1	10/22/2018 00:38	WG1184313
trans-1,2-Dichloroethene	U		0.00157	0.00548	1	10/22/2018 00:38	WG1184313
1,2-Dichloropropane	U		0.00139	0.00548	1	10/22/2018 00:38	WG1184313
1,1-Dichloropropene	U		0.000767	0.00274	1	10/22/2018 00:38	WG1184313
1,3-Dichloropropane	U		0.00192	0.00548	1	10/22/2018 00:38	WG1184313
cis-1,3-Dichloropropene	U		0.000743	0.00274	1	10/22/2018 00:38	WG1184313
trans-1,3-Dichloropropene	U		0.00168	0.00548	1	10/22/2018 00:38	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00153	0.00548	1	10/22/2018 00:38	WG1184313
2,2-Dichloropropane	U	J4	0.000869	0.00274	1	10/22/2018 00:38	WG1184313
Di-isopropyl ether	U		0.000384	0.00110	1	10/23/2018 18:14	WG1185140
Ethylbenzene	U		0.000581	0.00274	1	10/22/2018 00:38	WG1184313
Hexachloro-1,3-butadiene	U		0.0139	0.0274	1	10/22/2018 00:38	WG1184313
2-Hexanone	U		0.0110	0.0274	1	10/22/2018 00:38	WG1184313
n-Hexane	U		0.00116	0.00548	1	10/22/2018 00:38	WG1184313
Iodomethane	U		0.00663	0.0137	1	10/22/2018 00:38	WG1184313
Isopropylbenzene	U		0.000946	0.00274	1	10/22/2018 00:38	WG1184313
p-Isopropyltoluene	U		0.00255	0.00548	1	10/22/2018 00:38	WG1184313
2-Butanone (MEK)	0.0348		0.0137	0.0274	1	10/22/2018 00:38	WG1184313
Methylene Chloride	U		0.00728	0.0274	1	10/22/2018 00:38	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0274	1	10/22/2018 00:38	WG1184313

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 09:46

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000323	0.00110	1	10/23/2018 18:14	WG1185140
Naphthalene	U		0.00342	0.0137	1	10/22/2018 00:38	WG1184313
n-Propylbenzene	U		0.00129	0.00548	1	10/22/2018 00:38	WG1184313
Styrene	U		0.00299	0.0137	1	10/22/2018 00:38	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000548	0.00274	1	10/22/2018 00:38	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000427	0.00274	1	10/22/2018 00:38	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000740	0.00274	1	10/22/2018 00:38	WG1184313
Tetrachloroethene	0.00933		0.000767	0.00274	1	10/23/2018 18:14	WG1185140
Toluene	U		0.00137	0.00548	1	10/22/2018 00:38	WG1184313
1,2,3-Trichlorobenzene	U		0.000685	0.00274	1	10/22/2018 00:38	WG1184313
1,2,4-Trichlorobenzene	U		0.00528	0.0137	1	10/23/2018 18:14	WG1185140
1,1,1-Trichloroethane	U		0.000301	0.00274	1	10/22/2018 00:38	WG1184313
1,1,2-Trichloroethane	U		0.000968	0.00274	1	10/22/2018 00:38	WG1184313
Trichloroethene	0.00910		0.000438	0.00110	1	10/23/2018 18:14	WG1185140
Trichlorofluoromethane	U		0.000548	0.00274	1	10/22/2018 00:38	WG1184313
1,2,3-Trichloropropane	U		0.00559	0.0137	1	10/22/2018 00:38	WG1184313
1,2,4-Trimethylbenzene	U		0.00127	0.00548	1	10/22/2018 00:38	WG1184313
1,2,3-Trimethylbenzene	U		0.00126	0.00548	1	10/22/2018 00:38	WG1184313
1,3,5-Trimethylbenzene	U		0.00118	0.00548	1	10/22/2018 00:38	WG1184313
Vinyl acetate	U		0.00386	0.0137	1	10/22/2018 00:38	WG1184313
Vinyl chloride	0.00121	J	0.000748	0.00274	1	10/22/2018 00:38	WG1184313
Xylenes, Total	U		0.00524	0.00712	1	10/22/2018 00:38	WG1184313
(S) Toluene-d8	90.8			75.0-131		10/22/2018 00:38	WG1184313
(S) Toluene-d8	127			75.0-131		10/23/2018 18:14	WG1185140
(S) Dibromofluoromethane	112			65.0-129		10/22/2018 00:38	WG1184313
(S) Dibromofluoromethane	83.1			65.0-129		10/23/2018 18:14	WG1185140
(S) 4-Bromofluorobenzene	120			67.0-138		10/22/2018 00:38	WG1184313
(S) 4-Bromofluorobenzene	88.1			67.0-138		10/23/2018 18:14	WG1185140

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	87.3		1	10/24/2018 10:00	WG1184860

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0157	0.0286	1	10/22/2018 00:58	WG1184313
Acrylonitrile	U		0.00218	0.0143	1	10/22/2018 00:58	WG1184313
Benzene	U		0.000458	0.00115	1	10/23/2018 18:35	WG1185140
Bromobenzene	U		0.00120	0.0143	1	10/22/2018 00:58	WG1184313
Bromodichloromethane	U		0.000903	0.00286	1	10/22/2018 00:58	WG1184313
Bromochloromethane	U		0.00129	0.00573	1	10/22/2018 00:58	WG1184313
Bromoform	U		0.00685	0.0286	1	10/22/2018 00:58	WG1184313
Bromomethane	U		0.00424	0.0143	1	10/22/2018 00:58	WG1184313
n-Butylbenzene	U		0.00440	0.0143	1	10/22/2018 00:58	WG1184313
sec-Butylbenzene	U		0.00290	0.0143	1	10/22/2018 00:58	WG1184313
tert-Butylbenzene	U		0.00178	0.00573	1	10/22/2018 00:58	WG1184313
Carbon disulfide	U		0.00465	0.0143	1	10/22/2018 00:58	WG1184313
Carbon tetrachloride	U		0.00124	0.00573	1	10/22/2018 00:58	WG1184313
Chlorobenzene	U		0.000657	0.00286	1	10/22/2018 00:58	WG1184313
Chlorodibromomethane	U		0.000516	0.00286	1	10/22/2018 00:58	WG1184313
Chloroethane	U		0.00124	0.00573	1	10/22/2018 00:58	WG1184313
Chloroform	0.00244	B J	0.000476	0.00286	1	10/22/2018 00:58	WG1184313
Chloromethane	U		0.00159	0.0143	1	10/22/2018 00:58	WG1184313
2-Chlorotoluene	U		0.00105	0.00286	1	10/22/2018 00:58	WG1184313
4-Chlorotoluene	U		0.00129	0.00573	1	10/22/2018 00:58	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00584	0.0286	1	10/22/2018 00:58	WG1184313
1,2-Dibromoethane	U		0.000602	0.00286	1	10/22/2018 00:58	WG1184313
Dibromomethane	U		0.00115	0.00573	1	10/22/2018 00:58	WG1184313
1,2-Dichlorobenzene	U		0.00166	0.00573	1	10/22/2018 00:58	WG1184313
1,3-Dichlorobenzene	U		0.00195	0.00573	1	10/22/2018 00:58	WG1184313
1,4-Dichlorobenzene	U		0.00226	0.00573	1	10/22/2018 00:58	WG1184313
Dichlorodifluoromethane	U		0.000937	0.00286	1	10/22/2018 00:58	WG1184313
1,1-Dichloroethane	U		0.000659	0.00286	1	10/22/2018 00:58	WG1184313
1,2-Dichloroethane	U		0.000544	0.00286	1	10/22/2018 00:58	WG1184313
1,1-Dichloroethene	0.000899	J	0.000573	0.00286	1	10/22/2018 00:58	WG1184313
cis-1,2-Dichloroethene	0.105		0.000791	0.00286	1	10/22/2018 00:58	WG1184313
trans-1,2-Dichloroethene	U		0.00164	0.00573	1	10/22/2018 00:58	WG1184313
1,2-Dichloropropane	U		0.00146	0.00573	1	10/22/2018 00:58	WG1184313
1,1-Dichloropropene	U		0.000802	0.00286	1	10/22/2018 00:58	WG1184313
1,3-Dichloropropane	U		0.00201	0.00573	1	10/22/2018 00:58	WG1184313
cis-1,3-Dichloropropene	U		0.000777	0.00286	1	10/22/2018 00:58	WG1184313
trans-1,3-Dichloropropene	U		0.00175	0.00573	1	10/22/2018 00:58	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00160	0.00573	1	10/22/2018 00:58	WG1184313
2,2-Dichloropropane	U	J4	0.000909	0.00286	1	10/22/2018 00:58	WG1184313
Di-isopropyl ether	U		0.000401	0.00115	1	10/23/2018 18:35	WG1185140
Ethylbenzene	U		0.000607	0.00286	1	10/22/2018 00:58	WG1184313
Hexachloro-1,3-butadiene	U		0.0146	0.0286	1	10/22/2018 00:58	WG1184313
2-Hexanone	U		0.0115	0.0286	1	10/22/2018 00:58	WG1184313
n-Hexane	U		0.00121	0.00573	1	10/22/2018 00:58	WG1184313
Iodomethane	U		0.00693	0.0143	1	10/22/2018 00:58	WG1184313
Isopropylbenzene	U		0.000989	0.00286	1	10/22/2018 00:58	WG1184313
p-Isopropyltoluene	U		0.00267	0.00573	1	10/22/2018 00:58	WG1184313
2-Butanone (MEK)	0.0255	J	0.0143	0.0286	1	10/22/2018 00:58	WG1184313
Methylene Chloride	U		0.00761	0.0286	1	10/22/2018 00:58	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0286	1	10/22/2018 00:58	WG1184313

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 09:50

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000338	0.00115	1	10/23/2018 18:35	WG1185140
Naphthalene	U		0.00358	0.0143	1	10/22/2018 00:58	WG1184313
n-Propylbenzene	U		0.00135	0.00573	1	10/22/2018 00:58	WG1184313
Styrene	U		0.00313	0.0143	1	10/22/2018 00:58	WG1184313
1,1,1,2-Tetrachloroethane	0.000757	U	0.000573	0.00286	1	10/22/2018 00:58	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000447	0.00286	1	10/22/2018 00:58	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000773	0.00286	1	10/22/2018 00:58	WG1184313
Tetrachloroethene	0.00535		0.000802	0.00286	1	10/23/2018 18:35	WG1185140
Toluene	0.00224	U	0.00143	0.00573	1	10/22/2018 00:58	WG1184313
1,2,3-Trichlorobenzene	U		0.000716	0.00286	1	10/22/2018 00:58	WG1184313
1,2,4-Trichlorobenzene	U		0.00552	0.0143	1	10/23/2018 18:35	WG1185140
1,1,1-Trichloroethane	U		0.000315	0.00286	1	10/22/2018 00:58	WG1184313
1,1,2-Trichloroethane	U		0.00101	0.00286	1	10/22/2018 00:58	WG1184313
Trichloroethene	0.00372		0.000458	0.00115	1	10/23/2018 18:35	WG1185140
Trichlorofluoromethane	U		0.000573	0.00286	1	10/22/2018 00:58	WG1184313
1,2,3-Trichloropropane	U		0.00584	0.0143	1	10/22/2018 00:58	WG1184313
1,2,4-Trimethylbenzene	U		0.00133	0.00573	1	10/22/2018 00:58	WG1184313
1,2,3-Trimethylbenzene	U		0.00132	0.00573	1	10/22/2018 00:58	WG1184313
1,3,5-Trimethylbenzene	U		0.00124	0.00573	1	10/22/2018 00:58	WG1184313
Vinyl acetate	U		0.00403	0.0143	1	10/22/2018 00:58	WG1184313
Vinyl chloride	0.00257	U	0.000783	0.00286	1	10/22/2018 00:58	WG1184313
Xylenes, Total	U		0.00548	0.00745	1	10/22/2018 00:58	WG1184313
(S) Toluene-d8	99.3			75.0-131		10/22/2018 00:58	WG1184313
(S) Toluene-d8	125			75.0-131		10/23/2018 18:35	WG1185140
(S) Dibromofluoromethane	113			65.0-129		10/22/2018 00:58	WG1184313
(S) Dibromofluoromethane	94.1			65.0-129		10/23/2018 18:35	WG1185140
(S) 4-Bromofluorobenzene	123			67.0-138		10/22/2018 00:58	WG1184313
(S) 4-Bromofluorobenzene	94.5			67.0-138		10/23/2018 18:35	WG1185140

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	85.2		1	10/24/2018 10:00	WG1184860

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0161	0.0294	1	10/22/2018 01:18	WG1184313
Acrylonitrile	U		0.00223	0.0147	1	10/22/2018 01:18	WG1184313
Benzene	U		0.000470	0.00117	1	10/23/2018 18:55	WG1185140
Bromobenzene	U		0.00123	0.0147	1	10/22/2018 01:18	WG1184313
Bromodichloromethane	U		0.000925	0.00294	1	10/22/2018 01:18	WG1184313
Bromochloromethane	U		0.00133	0.00587	1	10/22/2018 01:18	WG1184313
Bromoform	U		0.00702	0.0294	1	10/22/2018 01:18	WG1184313
Bromomethane	U		0.00434	0.0147	1	10/22/2018 01:18	WG1184313
n-Butylbenzene	U		0.00451	0.0147	1	10/22/2018 01:18	WG1184313
sec-Butylbenzene	U		0.00297	0.0147	1	10/22/2018 01:18	WG1184313
tert-Butylbenzene	U		0.00182	0.00587	1	10/22/2018 01:18	WG1184313
Carbon disulfide	U		0.00477	0.0147	1	10/22/2018 01:18	WG1184313
Carbon tetrachloride	U		0.00127	0.00587	1	10/22/2018 01:18	WG1184313
Chlorobenzene	U		0.000673	0.00294	1	10/22/2018 01:18	WG1184313
Chlorodibromomethane	U		0.000528	0.00294	1	10/22/2018 01:18	WG1184313
Chloroethane	U		0.00127	0.00587	1	10/22/2018 01:18	WG1184313
Chloroform	0.00189	B J	0.000487	0.00294	1	10/22/2018 01:18	WG1184313
Chloromethane	U		0.00163	0.0147	1	10/22/2018 01:18	WG1184313
2-Chlorotoluene	U		0.00108	0.00294	1	10/22/2018 01:18	WG1184313
4-Chlorotoluene	U		0.00133	0.00587	1	10/22/2018 01:18	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00599	0.0294	1	10/22/2018 01:18	WG1184313
1,2-Dibromoethane	U		0.000616	0.00294	1	10/22/2018 01:18	WG1184313
Dibromomethane	U		0.00117	0.00587	1	10/22/2018 01:18	WG1184313
1,2-Dichlorobenzene	U		0.00170	0.00587	1	10/22/2018 01:18	WG1184313
1,3-Dichlorobenzene	U		0.00200	0.00587	1	10/22/2018 01:18	WG1184313
1,4-Dichlorobenzene	U		0.00231	0.00587	1	10/22/2018 01:18	WG1184313
Dichlorodifluoromethane	U		0.000960	0.00294	1	10/22/2018 01:18	WG1184313
1,1-Dichloroethane	U		0.000675	0.00294	1	10/22/2018 01:18	WG1184313
1,2-Dichloroethane	U		0.000558	0.00294	1	10/22/2018 01:18	WG1184313
1,1-Dichloroethene	0.00509		0.000587	0.00294	1	10/22/2018 01:18	WG1184313
cis-1,2-Dichloroethene	0.715		0.000810	0.00294	1	10/22/2018 01:18	WG1184313
trans-1,2-Dichloroethene	0.00395	J	0.00168	0.00587	1	10/22/2018 01:18	WG1184313
1,2-Dichloropropane	U		0.00149	0.00587	1	10/22/2018 01:18	WG1184313
1,1-Dichloropropene	U		0.000822	0.00294	1	10/22/2018 01:18	WG1184313
1,3-Dichloropropane	U		0.00205	0.00587	1	10/22/2018 01:18	WG1184313
cis-1,3-Dichloropropene	U		0.000796	0.00294	1	10/22/2018 01:18	WG1184313
trans-1,3-Dichloropropene	U		0.00180	0.00587	1	10/22/2018 01:18	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00164	0.00587	1	10/22/2018 01:18	WG1184313
2,2-Dichloropropane	U	J4	0.000931	0.00294	1	10/22/2018 01:18	WG1184313
Di-isopropyl ether	U		0.000411	0.00117	1	10/23/2018 18:55	WG1185140
Ethylbenzene	U		0.000622	0.00294	1	10/22/2018 01:18	WG1184313
Hexachloro-1,3-butadiene	U		0.0149	0.0294	1	10/22/2018 01:18	WG1184313
2-Hexanone	U		0.0117	0.0294	1	10/22/2018 01:18	WG1184313
n-Hexane	U		0.00124	0.00587	1	10/22/2018 01:18	WG1184313
Iodomethane	U		0.00710	0.0147	1	10/22/2018 01:18	WG1184313
Isopropylbenzene	U		0.00101	0.00294	1	10/22/2018 01:18	WG1184313
p-Isopropyltoluene	U		0.00274	0.00587	1	10/22/2018 01:18	WG1184313
2-Butanone (MEK)	0.0272	J	0.0147	0.0294	1	10/22/2018 01:18	WG1184313
Methylene Chloride	U		0.00780	0.0294	1	10/22/2018 01:18	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0294	1	10/22/2018 01:18	WG1184313

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 09:55

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000346	0.00117	1	10/23/2018 18:55	WG1185140
Naphthalene	U		0.00366	0.0147	1	10/22/2018 01:18	WG1184313
n-Propylbenzene	U		0.00139	0.00587	1	10/22/2018 01:18	WG1184313
Styrene	U		0.00321	0.0147	1	10/22/2018 01:18	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000587	0.00294	1	10/22/2018 01:18	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000458	0.00294	1	10/22/2018 01:18	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000792	0.00294	1	10/22/2018 01:18	WG1184313
Tetrachloroethene	0.0251		0.000822	0.00294	1	10/23/2018 18:55	WG1185140
Toluene	0.00152	J	0.00147	0.00587	1	10/22/2018 01:18	WG1184313
1,2,3-Trichlorobenzene	U		0.000734	0.00294	1	10/22/2018 01:18	WG1184313
1,2,4-Trichlorobenzene	U		0.00566	0.0147	1	10/23/2018 18:55	WG1185140
1,1,1-Trichloroethane	U		0.000323	0.00294	1	10/22/2018 01:18	WG1184313
1,1,2-Trichloroethane	U		0.00104	0.00294	1	10/22/2018 01:18	WG1184313
Trichloroethene	0.0103		0.000470	0.00117	1	10/23/2018 18:55	WG1185140
Trichlorofluoromethane	U		0.000587	0.00294	1	10/22/2018 01:18	WG1184313
1,2,3-Trichloropropane	U		0.00599	0.0147	1	10/22/2018 01:18	WG1184313
1,2,4-Trimethylbenzene	U		0.00136	0.00587	1	10/22/2018 01:18	WG1184313
1,2,3-Trimethylbenzene	U		0.00135	0.00587	1	10/22/2018 01:18	WG1184313
1,3,5-Trimethylbenzene	U		0.00127	0.00587	1	10/22/2018 01:18	WG1184313
Vinyl acetate	U		0.00413	0.0147	1	10/22/2018 01:18	WG1184313
Vinyl chloride	0.166		0.000802	0.00294	1	10/22/2018 01:18	WG1184313
Xylenes, Total	U		0.00561	0.00763	1	10/22/2018 01:18	WG1184313
(S) Toluene-d8	99.7			75.0-131		10/22/2018 01:18	WG1184313
(S) Toluene-d8	121			75.0-131		10/23/2018 18:55	WG1185140
(S) Dibromofluoromethane	110			65.0-129		10/22/2018 01:18	WG1184313
(S) Dibromofluoromethane	93.3			65.0-129		10/23/2018 18:55	WG1185140
(S) 4-Bromofluorobenzene	119			67.0-138		10/22/2018 01:18	WG1184313
(S) 4-Bromofluorobenzene	90.5			67.0-138		10/23/2018 18:55	WG1185140

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	89.5		1	10/24/2018 10:00	WG1184860

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0153	0.0279	1	10/22/2018 01:38	WG1184313
Acrylonitrile	U		0.00212	0.0140	1	10/22/2018 01:38	WG1184313
Benzene	U		0.000447	0.00112	1	10/23/2018 19:16	WG1185140
Bromobenzene	U		0.00117	0.0140	1	10/22/2018 01:38	WG1184313
Bromodichloromethane	U		0.000881	0.00279	1	10/22/2018 01:38	WG1184313
Bromochloromethane	U		0.00126	0.00559	1	10/22/2018 01:38	WG1184313
Bromoform	U		0.00668	0.0279	1	10/22/2018 01:38	WG1184313
Bromomethane	U		0.00414	0.0140	1	10/22/2018 01:38	WG1184313
n-Butylbenzene	U		0.00429	0.0140	1	10/22/2018 01:38	WG1184313
sec-Butylbenzene	U		0.00283	0.0140	1	10/22/2018 01:38	WG1184313
tert-Butylbenzene	U		0.00173	0.00559	1	10/22/2018 01:38	WG1184313
Carbon disulfide	U		0.00454	0.0140	1	10/22/2018 01:38	WG1184313
Carbon tetrachloride	U		0.00121	0.00559	1	10/22/2018 01:38	WG1184313
Chlorobenzene	U		0.000640	0.00279	1	10/22/2018 01:38	WG1184313
Chlorodibromomethane	U		0.000503	0.00279	1	10/22/2018 01:38	WG1184313
Chloroethane	U		0.00121	0.00559	1	10/22/2018 01:38	WG1184313
Chloroform	0.00179	B J	0.000464	0.00279	1	10/22/2018 01:38	WG1184313
Chloromethane	U		0.00155	0.0140	1	10/22/2018 01:38	WG1184313
2-Chlorotoluene	U		0.00103	0.00279	1	10/22/2018 01:38	WG1184313
4-Chlorotoluene	U		0.00126	0.00559	1	10/22/2018 01:38	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00570	0.0279	1	10/22/2018 01:38	WG1184313
1,2-Dibromoethane	U		0.000587	0.00279	1	10/22/2018 01:38	WG1184313
Dibromomethane	U		0.00112	0.00559	1	10/22/2018 01:38	WG1184313
1,2-Dichlorobenzene	U		0.00162	0.00559	1	10/22/2018 01:38	WG1184313
1,3-Dichlorobenzene	U		0.00190	0.00559	1	10/22/2018 01:38	WG1184313
1,4-Dichlorobenzene	U		0.00220	0.00559	1	10/22/2018 01:38	WG1184313
Dichlorodifluoromethane	U		0.000914	0.00279	1	10/22/2018 01:38	WG1184313
1,1-Dichloroethane	U		0.000643	0.00279	1	10/22/2018 01:38	WG1184313
1,2-Dichloroethane	U		0.000531	0.00279	1	10/22/2018 01:38	WG1184313
1,1-Dichloroethene	0.00344		0.000559	0.00279	1	10/22/2018 01:38	WG1184313
cis-1,2-Dichloroethene	0.718		0.000771	0.00279	1	10/22/2018 01:38	WG1184313
trans-1,2-Dichloroethene	U		0.00160	0.00559	1	10/22/2018 01:38	WG1184313
1,2-Dichloropropane	U		0.00142	0.00559	1	10/22/2018 01:38	WG1184313
1,1-Dichloropropene	U		0.000782	0.00279	1	10/22/2018 01:38	WG1184313
1,3-Dichloropropane	U		0.00196	0.00559	1	10/22/2018 01:38	WG1184313
cis-1,3-Dichloropropene	U		0.000758	0.00279	1	10/22/2018 01:38	WG1184313
trans-1,3-Dichloropropene	U		0.00171	0.00559	1	10/22/2018 01:38	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00156	0.00559	1	10/22/2018 01:38	WG1184313
2,2-Dichloropropane	U	J4	0.000886	0.00279	1	10/22/2018 01:38	WG1184313
Di-isopropyl ether	U		0.000391	0.00112	1	10/23/2018 19:16	WG1185140
Ethylbenzene	U		0.000592	0.00279	1	10/22/2018 01:38	WG1184313
Hexachloro-1,3-butadiene	U		0.0142	0.0279	1	10/22/2018 01:38	WG1184313
2-Hexanone	U		0.0112	0.0279	1	10/22/2018 01:38	WG1184313
n-Hexane	U		0.00118	0.00559	1	10/22/2018 01:38	WG1184313
Iodomethane	U		0.00676	0.0140	1	10/22/2018 01:38	WG1184313
Isopropylbenzene	U		0.000965	0.00279	1	10/22/2018 01:38	WG1184313
p-Isopropyltoluene	U		0.00260	0.00559	1	10/22/2018 01:38	WG1184313
2-Butanone (MEK)	0.0198	J	0.0140	0.0279	1	10/22/2018 01:38	WG1184313
Methylene Chloride	U		0.00742	0.0279	1	10/22/2018 01:38	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0279	1	10/22/2018 01:38	WG1184313

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 10:05

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000330	0.00112	1	10/23/2018 19:16	WG1185140
Naphthalene	U		0.00349	0.0140	1	10/22/2018 01:38	WG1184313
n-Propylbenzene	U		0.00132	0.00559	1	10/22/2018 01:38	WG1184313
Styrene	U		0.00305	0.0140	1	10/22/2018 01:38	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000559	0.00279	1	10/22/2018 01:38	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000436	0.00279	1	10/22/2018 01:38	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00279	1	10/22/2018 01:38	WG1184313
Tetrachloroethene	0.697		0.000782	0.00279	1	10/23/2018 19:16	WG1185140
Toluene	U		0.00140	0.00559	1	10/22/2018 01:38	WG1184313
1,2,3-Trichlorobenzene	U		0.000699	0.00279	1	10/22/2018 01:38	WG1184313
1,2,4-Trichlorobenzene	U		0.00539	0.0140	1	10/23/2018 19:16	WG1185140
1,1,1-Trichloroethane	U		0.000307	0.00279	1	10/22/2018 01:38	WG1184313
1,1,2-Trichloroethane	U		0.000987	0.00279	1	10/22/2018 01:38	WG1184313
Trichloroethene	0.253		0.000447	0.00112	1	10/23/2018 19:16	WG1185140
Trichlorofluoromethane	U		0.000559	0.00279	1	10/22/2018 01:38	WG1184313
1,2,3-Trichloropropane	U		0.00570	0.0140	1	10/22/2018 01:38	WG1184313
1,2,4-Trimethylbenzene	U		0.00130	0.00559	1	10/22/2018 01:38	WG1184313
1,2,3-Trimethylbenzene	U		0.00129	0.00559	1	10/22/2018 01:38	WG1184313
1,3,5-Trimethylbenzene	U		0.00121	0.00559	1	10/22/2018 01:38	WG1184313
Vinyl acetate	U		0.00393	0.0140	1	10/22/2018 01:38	WG1184313
Vinyl chloride	0.0191		0.000763	0.00279	1	10/22/2018 01:38	WG1184313
Xylenes, Total	U		0.00534	0.00726	1	10/22/2018 01:38	WG1184313
(S) Toluene-d8	99.9			75.0-131		10/22/2018 01:38	WG1184313
(S) Toluene-d8	124			75.0-131		10/23/2018 19:16	WG1185140
(S) Dibromofluoromethane	112			65.0-129		10/22/2018 01:38	WG1184313
(S) Dibromofluoromethane	95.5			65.0-129		10/23/2018 19:16	WG1185140
(S) 4-Bromofluorobenzene	122			67.0-138		10/22/2018 01:38	WG1184313
(S) 4-Bromofluorobenzene	88.7			67.0-138		10/23/2018 19:16	WG1185140

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	90.2		1	10/24/2018 10:00	WG1184860

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0152	0.0277	1	10/22/2018 01:58	WG1184313
Acrylonitrile	U		0.00211	0.0139	1	10/22/2018 01:58	WG1184313
Benzene	U		0.000444	0.00111	1	10/23/2018 19:36	WG1185140
Bromobenzene	U		0.00116	0.0139	1	10/22/2018 01:58	WG1184313
Bromodichloromethane	U		0.000874	0.00277	1	10/22/2018 01:58	WG1184313
Bromochloromethane	U		0.00125	0.00554	1	10/22/2018 01:58	WG1184313
Bromoform	U		0.00663	0.0277	1	10/22/2018 01:58	WG1184313
Bromomethane	U		0.00410	0.0139	1	10/22/2018 01:58	WG1184313
n-Butylbenzene	U		0.00426	0.0139	1	10/22/2018 01:58	WG1184313
sec-Butylbenzene	U		0.00281	0.0139	1	10/22/2018 01:58	WG1184313
tert-Butylbenzene	U		0.00172	0.00554	1	10/22/2018 01:58	WG1184313
Carbon disulfide	U		0.00450	0.0139	1	10/22/2018 01:58	WG1184313
Carbon tetrachloride	U		0.00120	0.00554	1	10/22/2018 01:58	WG1184313
Chlorobenzene	U		0.000635	0.00277	1	10/22/2018 01:58	WG1184313
Chlorodibromomethane	U		0.000499	0.00277	1	10/22/2018 01:58	WG1184313
Chloroethane	U		0.00120	0.00554	1	10/22/2018 01:58	WG1184313
Chloroform	0.00189	B J	0.000460	0.00277	1	10/22/2018 01:58	WG1184313
Chloromethane	U		0.00154	0.0139	1	10/22/2018 01:58	WG1184313
2-Chlorotoluene	U		0.00102	0.00277	1	10/22/2018 01:58	WG1184313
4-Chlorotoluene	U		0.00125	0.00554	1	10/22/2018 01:58	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00566	0.0277	1	10/22/2018 01:58	WG1184313
1,2-Dibromoethane	U		0.000582	0.00277	1	10/22/2018 01:58	WG1184313
Dibromomethane	U		0.00111	0.00554	1	10/22/2018 01:58	WG1184313
1,2-Dichlorobenzene	U		0.00161	0.00554	1	10/22/2018 01:58	WG1184313
1,3-Dichlorobenzene	U		0.00189	0.00554	1	10/22/2018 01:58	WG1184313
1,4-Dichlorobenzene	U		0.00218	0.00554	1	10/22/2018 01:58	WG1184313
Dichlorodifluoromethane	U		0.000907	0.00277	1	10/22/2018 01:58	WG1184313
1,1-Dichloroethane	U		0.000638	0.00277	1	10/22/2018 01:58	WG1184313
1,2-Dichloroethane	U		0.000527	0.00277	1	10/22/2018 01:58	WG1184313
1,1-Dichloroethene	U		0.000554	0.00277	1	10/22/2018 01:58	WG1184313
cis-1,2-Dichloroethene	0.0185		0.000765	0.00277	1	10/22/2018 01:58	WG1184313
trans-1,2-Dichloroethene	U		0.00159	0.00554	1	10/22/2018 01:58	WG1184313
1,2-Dichloropropane	U		0.00141	0.00554	1	10/22/2018 01:58	WG1184313
1,1-Dichloropropene	U		0.000776	0.00277	1	10/22/2018 01:58	WG1184313
1,3-Dichloropropane	U		0.00194	0.00554	1	10/22/2018 01:58	WG1184313
cis-1,3-Dichloropropene	U		0.000752	0.00277	1	10/22/2018 01:58	WG1184313
trans-1,3-Dichloropropene	U		0.00170	0.00554	1	10/22/2018 01:58	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00155	0.00554	1	10/22/2018 01:58	WG1184313
2,2-Dichloropropane	U	J4	0.000879	0.00277	1	10/22/2018 01:58	WG1184313
Di-isopropyl ether	U		0.000388	0.00111	1	10/23/2018 19:36	WG1185140
Ethylbenzene	U		0.000588	0.00277	1	10/22/2018 01:58	WG1184313
Hexachloro-1,3-butadiene	U		0.0141	0.0277	1	10/22/2018 01:58	WG1184313
2-Hexanone	U		0.0111	0.0277	1	10/22/2018 01:58	WG1184313
n-Hexane	U		0.00118	0.00554	1	10/22/2018 01:58	WG1184313
Iodomethane	U		0.00671	0.0139	1	10/22/2018 01:58	WG1184313
Isopropylbenzene	U		0.000957	0.00277	1	10/22/2018 01:58	WG1184313
p-Isopropyltoluene	U		0.00258	0.00554	1	10/22/2018 01:58	WG1184313
2-Butanone (MEK)	0.0209	J	0.0139	0.0277	1	10/22/2018 01:58	WG1184313
Methylene Chloride	U		0.00736	0.0277	1	10/22/2018 01:58	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0277	1	10/22/2018 01:58	WG1184313

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 10:32

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000327	0.00111	1	10/23/2018 19:36	WG1185140
Naphthalene	U		0.00346	0.0139	1	10/22/2018 01:58	WG1184313
n-Propylbenzene	U		0.00131	0.00554	1	10/22/2018 01:58	WG1184313
Styrene	U		0.00303	0.0139	1	10/22/2018 01:58	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000554	0.00277	1	10/22/2018 01:58	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000432	0.00277	1	10/22/2018 01:58	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000749	0.00277	1	10/22/2018 01:58	WG1184313
Tetrachloroethene	0.0785		0.000776	0.00277	1	10/23/2018 19:36	WG1185140
Toluene	U		0.00139	0.00554	1	10/22/2018 01:58	WG1184313
1,2,3-Trichlorobenzene	U		0.000693	0.00277	1	10/22/2018 01:58	WG1184313
1,2,4-Trichlorobenzene	U		0.00535	0.0139	1	10/23/2018 19:36	WG1185140
1,1,1-Trichloroethane	U		0.000305	0.00277	1	10/22/2018 01:58	WG1184313
1,1,2-Trichloroethane	0.00189	U	0.000979	0.00277	1	10/22/2018 01:58	WG1184313
Trichloroethene	0.00667		0.000444	0.00111	1	10/23/2018 19:36	WG1185140
Trichlorofluoromethane	U		0.000554	0.00277	1	10/22/2018 01:58	WG1184313
1,2,3-Trichloropropane	U		0.00566	0.0139	1	10/22/2018 01:58	WG1184313
1,2,4-Trimethylbenzene	U		0.00129	0.00554	1	10/22/2018 01:58	WG1184313
1,2,3-Trimethylbenzene	U		0.00128	0.00554	1	10/22/2018 01:58	WG1184313
1,3,5-Trimethylbenzene	U		0.00120	0.00554	1	10/22/2018 01:58	WG1184313
Vinyl acetate	U		0.00390	0.0139	1	10/22/2018 01:58	WG1184313
Vinyl chloride	U		0.000757	0.00277	1	10/22/2018 01:58	WG1184313
Xylenes, Total	U		0.00530	0.00721	1	10/22/2018 01:58	WG1184313
(S) Toluene-d8	99.1			75.0-131		10/22/2018 01:58	WG1184313
(S) Toluene-d8	124			75.0-131		10/23/2018 19:36	WG1185140
(S) Dibromofluoromethane	111			65.0-129		10/22/2018 01:58	WG1184313
(S) Dibromofluoromethane	95.4			65.0-129		10/23/2018 19:36	WG1185140
(S) 4-Bromofluorobenzene	121			67.0-138		10/22/2018 01:58	WG1184313
(S) 4-Bromofluorobenzene	88.5			67.0-138		10/23/2018 19:36	WG1185140

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	89.1		1	10/24/2018 10:00	WG1184860

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0154	0.0281	1	10/22/2018 02:18	WG1184313
Acrylonitrile	U		0.00213	0.0140	1	10/22/2018 02:18	WG1184313
Benzene	U		0.000449	0.00112	1	10/23/2018 19:57	WG1185140
Bromobenzene	U		0.00118	0.0140	1	10/22/2018 02:18	WG1184313
Bromodichloromethane	U		0.000884	0.00281	1	10/22/2018 02:18	WG1184313
Bromochloromethane	U		0.00127	0.00561	1	10/22/2018 02:18	WG1184313
Bromoform	U		0.00671	0.0281	1	10/22/2018 02:18	WG1184313
Bromomethane	U		0.00415	0.0140	1	10/22/2018 02:18	WG1184313
n-Butylbenzene	U		0.00431	0.0140	1	10/22/2018 02:18	WG1184313
sec-Butylbenzene	U		0.00284	0.0140	1	10/22/2018 02:18	WG1184313
tert-Butylbenzene	U		0.00174	0.00561	1	10/22/2018 02:18	WG1184313
Carbon disulfide	U		0.00456	0.0140	1	10/22/2018 02:18	WG1184313
Carbon tetrachloride	U		0.00121	0.00561	1	10/22/2018 02:18	WG1184313
Chlorobenzene	U		0.000643	0.00281	1	10/22/2018 02:18	WG1184313
Chlorodibromomethane	U		0.000505	0.00281	1	10/22/2018 02:18	WG1184313
Chloroethane	U		0.00121	0.00561	1	10/22/2018 02:18	WG1184313
Chloroform	0.00206	B J	0.000466	0.00281	1	10/22/2018 02:18	WG1184313
Chloromethane	U		0.00156	0.0140	1	10/22/2018 02:18	WG1184313
2-Chlorotoluene	U		0.00103	0.00281	1	10/22/2018 02:18	WG1184313
4-Chlorotoluene	U		0.00127	0.00561	1	10/22/2018 02:18	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00572	0.0281	1	10/22/2018 02:18	WG1184313
1,2-Dibromoethane	U		0.000589	0.00281	1	10/22/2018 02:18	WG1184313
Dibromomethane	U		0.00112	0.00561	1	10/22/2018 02:18	WG1184313
1,2-Dichlorobenzene	U		0.00163	0.00561	1	10/22/2018 02:18	WG1184313
1,3-Dichlorobenzene	U		0.00191	0.00561	1	10/22/2018 02:18	WG1184313
1,4-Dichlorobenzene	U		0.00221	0.00561	1	10/22/2018 02:18	WG1184313
Dichlorodifluoromethane	U		0.000918	0.00281	1	10/22/2018 02:18	WG1184313
1,1-Dichloroethane	U		0.000645	0.00281	1	10/22/2018 02:18	WG1184313
1,2-Dichloroethane	U		0.000533	0.00281	1	10/22/2018 02:18	WG1184313
1,1-Dichloroethene	0.000732	J	0.000561	0.00281	1	10/22/2018 02:18	WG1184313
cis-1,2-Dichloroethene	0.142		0.000774	0.00281	1	10/22/2018 02:18	WG1184313
trans-1,2-Dichloroethene	0.00182	J	0.00160	0.00561	1	10/22/2018 02:18	WG1184313
1,2-Dichloropropane	U		0.00143	0.00561	1	10/22/2018 02:18	WG1184313
1,1-Dichloropropene	U		0.000786	0.00281	1	10/22/2018 02:18	WG1184313
1,3-Dichloropropane	U		0.00196	0.00561	1	10/22/2018 02:18	WG1184313
cis-1,3-Dichloropropene	U		0.000761	0.00281	1	10/22/2018 02:18	WG1184313
trans-1,3-Dichloropropene	U		0.00172	0.00561	1	10/22/2018 02:18	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00157	0.00561	1	10/22/2018 02:18	WG1184313
2,2-Dichloropropane	U	J4	0.000890	0.00281	1	10/22/2018 02:18	WG1184313
Di-isopropyl ether	U		0.000393	0.00112	1	10/23/2018 19:57	WG1185140
Ethylbenzene	U		0.000595	0.00281	1	10/22/2018 02:18	WG1184313
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	10/22/2018 02:18	WG1184313
2-Hexanone	U		0.0112	0.0281	1	10/22/2018 02:18	WG1184313
n-Hexane	U		0.00119	0.00561	1	10/22/2018 02:18	WG1184313
Iodomethane	U		0.00679	0.0140	1	10/22/2018 02:18	WG1184313
Isopropylbenzene	U		0.000968	0.00281	1	10/22/2018 02:18	WG1184313
p-Isopropyltoluene	U		0.00261	0.00561	1	10/22/2018 02:18	WG1184313
2-Butanone (MEK)	0.0348		0.0140	0.0281	1	10/22/2018 02:18	WG1184313
Methylene Chloride	U		0.00745	0.0281	1	10/22/2018 02:18	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	10/22/2018 02:18	WG1184313

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 10:37

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000331	0.00112	1	10/23/2018 19:57	WG1185140
Naphthalene	U		0.00350	0.0140	1	10/22/2018 02:18	WG1184313
n-Propylbenzene	U		0.00132	0.00561	1	10/22/2018 02:18	WG1184313
Styrene	U		0.00306	0.0140	1	10/22/2018 02:18	WG1184313
1,1,1,2-Tetrachloroethane	0.000647	<u>L</u>	0.000561	0.00281	1	10/22/2018 02:18	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000438	0.00281	1	10/22/2018 02:18	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000757	0.00281	1	10/22/2018 02:18	WG1184313
Tetrachloroethene	0.0294	<u>V3</u>	0.000786	0.00281	1	10/23/2018 19:57	WG1185140
Toluene	0.00153	<u>L</u>	0.00140	0.00561	1	10/22/2018 02:18	WG1184313
1,2,3-Trichlorobenzene	U		0.000701	0.00281	1	10/22/2018 02:18	WG1184313
1,2,4-Trichlorobenzene	U		0.00541	0.0140	1	10/23/2018 19:57	WG1185140
1,1,1-Trichloroethane	U		0.000309	0.00281	1	10/22/2018 02:18	WG1184313
1,1,2-Trichloroethane	U		0.000991	0.00281	1	10/22/2018 02:18	WG1184313
Trichloroethene	0.00771		0.000449	0.00112	1	10/23/2018 19:57	WG1185140
Trichlorofluoromethane	U		0.000561	0.00281	1	10/22/2018 02:18	WG1184313
1,2,3-Trichloropropane	U		0.00572	0.0140	1	10/22/2018 02:18	WG1184313
1,2,4-Trimethylbenzene	0.00132	<u>L</u>	0.00130	0.00561	1	10/22/2018 02:18	WG1184313
1,2,3-Trimethylbenzene	U		0.00129	0.00561	1	10/22/2018 02:18	WG1184313
1,3,5-Trimethylbenzene	U		0.00121	0.00561	1	10/22/2018 02:18	WG1184313
Vinyl acetate	U		0.00395	0.0140	1	10/22/2018 02:18	WG1184313
Vinyl chloride	0.00269	<u>L</u>	0.000766	0.00281	1	10/22/2018 02:18	WG1184313
Xylenes, Total	U		0.00536	0.00729	1	10/22/2018 02:18	WG1184313
(S) Toluene-d8	101			75.0-131		10/22/2018 02:18	WG1184313
(S) Toluene-d8	131			75.0-131		10/23/2018 19:57	WG1185140
(S) Dibromofluoromethane	112			65.0-129		10/22/2018 02:18	WG1184313
(S) Dibromofluoromethane	86.1			65.0-129		10/23/2018 19:57	WG1185140
(S) 4-Bromofluorobenzene	120			67.0-138		10/22/2018 02:18	WG1184313
(S) 4-Bromofluorobenzene	58.1	<u>J2</u>		67.0-138		10/23/2018 19:57	WG1185140

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.1		1	10/24/2018 10:00	WG1184860

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0157	0.0287	1	10/22/2018 02:38	WG1184313
Acrylonitrile	U		0.00218	0.0143	1	10/22/2018 02:38	WG1184313
Benzene	U		0.000459	0.00115	1	10/23/2018 20:17	WG1185140
Bromobenzene	U		0.00120	0.0143	1	10/22/2018 02:38	WG1184313
Bromodichloromethane	U		0.000904	0.00287	1	10/22/2018 02:38	WG1184313
Bromochloromethane	U		0.00130	0.00574	1	10/22/2018 02:38	WG1184313
Bromoform	U		0.00686	0.0287	1	10/22/2018 02:38	WG1184313
Bromomethane	U		0.00425	0.0143	1	10/22/2018 02:38	WG1184313
n-Butylbenzene	U		0.00441	0.0143	1	10/22/2018 02:38	WG1184313
sec-Butylbenzene	U		0.00290	0.0143	1	10/22/2018 02:38	WG1184313
tert-Butylbenzene	U		0.00178	0.00574	1	10/22/2018 02:38	WG1184313
Carbon disulfide	U		0.00466	0.0143	1	10/22/2018 02:38	WG1184313
Carbon tetrachloride	U		0.00124	0.00574	1	10/22/2018 02:38	WG1184313
Chlorobenzene	U		0.000658	0.00287	1	10/22/2018 02:38	WG1184313
Chlorodibromomethane	U		0.000516	0.00287	1	10/22/2018 02:38	WG1184313
Chloroethane	U		0.00124	0.00574	1	10/22/2018 02:38	WG1184313
Chloroform	0.00159	B J	0.000476	0.00287	1	10/22/2018 02:38	WG1184313
Chloromethane	U		0.00160	0.0143	1	10/22/2018 02:38	WG1184313
2-Chlorotoluene	U		0.00106	0.00287	1	10/22/2018 02:38	WG1184313
4-Chlorotoluene	U		0.00130	0.00574	1	10/22/2018 02:38	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00585	0.0287	1	10/22/2018 02:38	WG1184313
1,2-Dibromoethane	U		0.000602	0.00287	1	10/22/2018 02:38	WG1184313
Dibromomethane	U		0.00115	0.00574	1	10/22/2018 02:38	WG1184313
1,2-Dichlorobenzene	U		0.00166	0.00574	1	10/22/2018 02:38	WG1184313
1,3-Dichlorobenzene	U		0.00195	0.00574	1	10/22/2018 02:38	WG1184313
1,4-Dichlorobenzene	U		0.00226	0.00574	1	10/22/2018 02:38	WG1184313
Dichlorodifluoromethane	U		0.000939	0.00287	1	10/22/2018 02:38	WG1184313
1,1-Dichloroethane	U		0.000660	0.00287	1	10/22/2018 02:38	WG1184313
1,2-Dichloroethane	U		0.000545	0.00287	1	10/22/2018 02:38	WG1184313
1,1-Dichloroethene	0.00166	J	0.000574	0.00287	1	10/22/2018 02:38	WG1184313
cis-1,2-Dichloroethene	0.568		0.000792	0.00287	1	10/22/2018 02:38	WG1184313
trans-1,2-Dichloroethene	0.00241	J	0.00164	0.00574	1	10/22/2018 02:38	WG1184313
1,2-Dichloropropane	U		0.00146	0.00574	1	10/22/2018 02:38	WG1184313
1,1-Dichloropropene	U		0.000803	0.00287	1	10/22/2018 02:38	WG1184313
1,3-Dichloropropane	U		0.00201	0.00574	1	10/22/2018 02:38	WG1184313
cis-1,3-Dichloropropene	U		0.000778	0.00287	1	10/22/2018 02:38	WG1184313
trans-1,3-Dichloropropene	U		0.00176	0.00574	1	10/22/2018 02:38	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00161	0.00574	1	10/22/2018 02:38	WG1184313
2,2-Dichloropropane	U	J4	0.000910	0.00287	1	10/22/2018 02:38	WG1184313
Di-isopropyl ether	U		0.000402	0.00115	1	10/23/2018 20:17	WG1185140
Ethylbenzene	U		0.000608	0.00287	1	10/22/2018 02:38	WG1184313
Hexachloro-1,3-butadiene	U		0.0146	0.0287	1	10/22/2018 02:38	WG1184313
2-Hexanone	U		0.0115	0.0287	1	10/22/2018 02:38	WG1184313
n-Hexane	U		0.00122	0.00574	1	10/22/2018 02:38	WG1184313
Iodomethane	U		0.00694	0.0143	1	10/22/2018 02:38	WG1184313
Isopropylbenzene	U		0.000990	0.00287	1	10/22/2018 02:38	WG1184313
p-Isopropyltoluene	U		0.00267	0.00574	1	10/22/2018 02:38	WG1184313
2-Butanone (MEK)	0.0241	J	0.0143	0.0287	1	10/22/2018 02:38	WG1184313
Methylene Chloride	U		0.00762	0.0287	1	10/22/2018 02:38	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0287	1	10/22/2018 02:38	WG1184313

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 10:38

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000339	0.00115	1	10/23/2018 20:17	WG1185140
Naphthalene	U		0.00358	0.0143	1	10/22/2018 02:38	WG1184313
n-Propylbenzene	U		0.00135	0.00574	1	10/22/2018 02:38	WG1184313
Styrene	U		0.00313	0.0143	1	10/22/2018 02:38	WG1184313
1,1,1,2-Tetrachloroethane	0.000624	J	0.000574	0.00287	1	10/22/2018 02:38	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000448	0.00287	1	10/22/2018 02:38	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000775	0.00287	1	10/22/2018 02:38	WG1184313
Tetrachloroethene	0.0106		0.000803	0.00287	1	10/23/2018 20:17	WG1185140
Toluene	U		0.00143	0.00574	1	10/22/2018 02:38	WG1184313
1,2,3-Trichlorobenzene	U		0.000717	0.00287	1	10/22/2018 02:38	WG1184313
1,2,4-Trichlorobenzene	U		0.00553	0.0143	1	10/23/2018 20:17	WG1185140
1,1,1-Trichloroethane	U		0.000316	0.00287	1	10/22/2018 02:38	WG1184313
1,1,2-Trichloroethane	U		0.00101	0.00287	1	10/22/2018 02:38	WG1184313
Trichloroethene	0.00211		0.000459	0.00115	1	10/23/2018 20:17	WG1185140
Trichlorofluoromethane	U		0.000574	0.00287	1	10/22/2018 02:38	WG1184313
1,2,3-Trichloropropane	U		0.00585	0.0143	1	10/22/2018 02:38	WG1184313
1,2,4-Trimethylbenzene	U		0.00133	0.00574	1	10/22/2018 02:38	WG1184313
1,2,3-Trimethylbenzene	U		0.00132	0.00574	1	10/22/2018 02:38	WG1184313
1,3,5-Trimethylbenzene	U		0.00124	0.00574	1	10/22/2018 02:38	WG1184313
Vinyl acetate	U		0.00404	0.0143	1	10/22/2018 02:38	WG1184313
Vinyl chloride	0.0103		0.000784	0.00287	1	10/22/2018 02:38	WG1184313
Xylenes, Total	U		0.00549	0.00746	1	10/22/2018 02:38	WG1184313
(S) Toluene-d8	101			75.0-131		10/22/2018 02:38	WG1184313
(S) Toluene-d8	126			75.0-131		10/23/2018 20:17	WG1185140
(S) Dibromofluoromethane	116			65.0-129		10/22/2018 02:38	WG1184313
(S) Dibromofluoromethane	94.2			65.0-129		10/23/2018 20:17	WG1185140
(S) 4-Bromofluorobenzene	119			67.0-138		10/22/2018 02:38	WG1184313
(S) 4-Bromofluorobenzene	94.6			67.0-138		10/23/2018 20:17	WG1185140

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	10/24/2018 10:00	WG1184860

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0159	0.0290	1	10/22/2018 02:58	WG1184313
Acrylonitrile	U		0.00221	0.0145	1	10/22/2018 02:58	WG1184313
Benzene	U		0.00465	0.0116	10	10/23/2018 21:18	WG1185140
Bromobenzene	U		0.00122	0.0145	1	10/22/2018 02:58	WG1184313
Bromodichloromethane	U		0.000915	0.00290	1	10/22/2018 02:58	WG1184313
Bromochloromethane	U		0.00131	0.00581	1	10/22/2018 02:58	WG1184313
Bromoform	U		0.00694	0.0290	1	10/22/2018 02:58	WG1184313
Bromomethane	U		0.00430	0.0145	1	10/22/2018 02:58	WG1184313
n-Butylbenzene	U		0.00446	0.0145	1	10/22/2018 02:58	WG1184313
sec-Butylbenzene	U		0.00294	0.0145	1	10/22/2018 02:58	WG1184313
tert-Butylbenzene	U		0.00180	0.00581	1	10/22/2018 02:58	WG1184313
Carbon disulfide	U		0.00471	0.0145	1	10/22/2018 02:58	WG1184313
Carbon tetrachloride	U		0.00125	0.00581	1	10/22/2018 02:58	WG1184313
Chlorobenzene	U		0.000665	0.00290	1	10/22/2018 02:58	WG1184313
Chlorodibromomethane	U		0.000523	0.00290	1	10/22/2018 02:58	WG1184313
Chloroethane	U		0.00125	0.00581	1	10/22/2018 02:58	WG1184313
Chloroform	0.00183	B J	0.000482	0.00290	1	10/22/2018 02:58	WG1184313
Chloromethane	U		0.00161	0.0145	1	10/22/2018 02:58	WG1184313
2-Chlorotoluene	U		0.00107	0.00290	1	10/22/2018 02:58	WG1184313
4-Chlorotoluene	U		0.00131	0.00581	1	10/22/2018 02:58	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00592	0.0290	1	10/22/2018 02:58	WG1184313
1,2-Dibromoethane	U		0.000610	0.00290	1	10/22/2018 02:58	WG1184313
Dibromomethane	U		0.00116	0.00581	1	10/22/2018 02:58	WG1184313
1,2-Dichlorobenzene	U		0.00168	0.00581	1	10/22/2018 02:58	WG1184313
1,3-Dichlorobenzene	U		0.00197	0.00581	1	10/22/2018 02:58	WG1184313
1,4-Dichlorobenzene	U		0.00229	0.00581	1	10/22/2018 02:58	WG1184313
Dichlorodifluoromethane	U		0.000950	0.00290	1	10/22/2018 02:58	WG1184313
1,1-Dichloroethane	U		0.000668	0.00290	1	10/22/2018 02:58	WG1184313
1,2-Dichloroethane	U		0.000552	0.00290	1	10/22/2018 02:58	WG1184313
1,1-Dichloroethene	0.00427		0.000581	0.00290	1	10/22/2018 02:58	WG1184313
cis-1,2-Dichloroethene	0.414		0.000801	0.00290	1	10/22/2018 02:58	WG1184313
trans-1,2-Dichloroethene	0.00349	J	0.00166	0.00581	1	10/22/2018 02:58	WG1184313
1,2-Dichloropropane	U		0.00147	0.00581	1	10/22/2018 02:58	WG1184313
1,1-Dichloropropene	U		0.000813	0.00290	1	10/22/2018 02:58	WG1184313
1,3-Dichloropropane	U		0.00203	0.00581	1	10/22/2018 02:58	WG1184313
cis-1,3-Dichloropropene	0.000791	J	0.000787	0.00290	1	10/22/2018 02:58	WG1184313
trans-1,3-Dichloropropene	U		0.00178	0.00581	1	10/22/2018 02:58	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00163	0.00581	1	10/22/2018 02:58	WG1184313
2,2-Dichloropropane	U	J4	0.000921	0.00290	1	10/22/2018 02:58	WG1184313
Di-isopropyl ether	U		0.00406	0.0116	10	10/23/2018 21:18	WG1185140
Ethylbenzene	U		0.000615	0.00290	1	10/22/2018 02:58	WG1184313
Hexachloro-1,3-butadiene	U		0.0147	0.0290	1	10/22/2018 02:58	WG1184313
2-Hexanone	U		0.0116	0.0290	1	10/22/2018 02:58	WG1184313
n-Hexane	0.00587		0.00123	0.00581	1	10/22/2018 02:58	WG1184313
Iodomethane	U		0.00703	0.0145	1	10/22/2018 02:58	WG1184313
Isopropylbenzene	U		0.00100	0.00290	1	10/22/2018 02:58	WG1184313
p-Isopropyltoluene	U		0.00271	0.00581	1	10/22/2018 02:58	WG1184313
2-Butanone (MEK)	0.0288	J	0.0145	0.0290	1	10/22/2018 02:58	WG1184313
Methylene Chloride	U		0.00771	0.0290	1	10/22/2018 02:58	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1	10/22/2018 02:58	WG1184313

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 10:45

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00343	0.0116	10	10/23/2018 21:18	WG1185140
Naphthalene	U		0.00362	0.0145	1	10/22/2018 02:58	WG1184313
n-Propylbenzene	U		0.00137	0.00581	1	10/22/2018 02:58	WG1184313
Styrene	U		0.00317	0.0145	1	10/22/2018 02:58	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000581	0.00290	1	10/22/2018 02:58	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000453	0.00290	1	10/22/2018 02:58	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000784	0.00290	1	10/22/2018 02:58	WG1184313
Tetrachloroethene	9.92		0.0650	0.232	80	10/25/2018 00:40	WG1185815
Toluene	0.00165	J	0.00145	0.00581	1	10/22/2018 02:58	WG1184313
1,2,3-Trichlorobenzene	U		0.000726	0.00290	1	10/22/2018 02:58	WG1184313
1,2,4-Trichlorobenzene	U		0.0560	0.145	10	10/23/2018 21:18	WG1185140
1,1,1-Trichloroethane	U		0.000319	0.00290	1	10/22/2018 02:58	WG1184313
1,1,2-Trichloroethane	U		0.00103	0.00290	1	10/22/2018 02:58	WG1184313
Trichloroethene	1.98		0.00465	0.0116	10	10/23/2018 21:18	WG1185140
Trichlorofluoromethane	U		0.000581	0.00290	1	10/22/2018 02:58	WG1184313
1,2,3-Trichloropropane	U		0.00592	0.0145	1	10/22/2018 02:58	WG1184313
1,2,4-Trimethylbenzene	U		0.00135	0.00581	1	10/22/2018 02:58	WG1184313
1,2,3-Trimethylbenzene	U		0.00134	0.00581	1	10/22/2018 02:58	WG1184313
1,3,5-Trimethylbenzene	U		0.00125	0.00581	1	10/22/2018 02:58	WG1184313
Vinyl acetate	U		0.00409	0.0145	1	10/22/2018 02:58	WG1184313
Vinyl chloride	0.0101		0.000793	0.00290	1	10/22/2018 02:58	WG1184313
Xylenes, Total	U		0.00555	0.00755	1	10/22/2018 02:58	WG1184313
(S) Toluene-d8	101			75.0-131		10/22/2018 02:58	WG1184313
(S) Toluene-d8	120			75.0-131		10/23/2018 21:18	WG1185140
(S) Toluene-d8	104			75.0-131		10/25/2018 00:40	WG1185815
(S) Dibromofluoromethane	112			65.0-129		10/22/2018 02:58	WG1184313
(S) Dibromofluoromethane	102			65.0-129		10/23/2018 21:18	WG1185140
(S) Dibromofluoromethane	101			65.0-129		10/25/2018 00:40	WG1185815
(S) 4-Bromofluorobenzene	120			67.0-138		10/22/2018 02:58	WG1184313
(S) 4-Bromofluorobenzene	93.1			67.0-138		10/23/2018 21:18	WG1185140
(S) 4-Bromofluorobenzene	103			67.0-138		10/25/2018 00:40	WG1185815

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

Sample Narrative:

L1036155-18 WG1184313, WG1185140: Not all compounds reportable at lower dilution.

L1036155-18 WG1184313, WG1185140: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.5		1	10/24/2018 10:00	WG1184860

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0151	0.0276	1	10/22/2018 03:18	WG1184313
Acrylonitrile	U		0.00210	0.0138	1	10/22/2018 03:18	WG1184313
Benzene	U		0.00442	0.0111	10	10/23/2018 21:38	WG1185140
Bromobenzene	U		0.00116	0.0138	1	10/22/2018 03:18	WG1184313
Bromodichloromethane	U		0.000871	0.00276	1	10/22/2018 03:18	WG1184313
Bromochloromethane	U		0.00125	0.00553	1	10/22/2018 03:18	WG1184313
Bromoform	U		0.00661	0.0276	1	10/22/2018 03:18	WG1184313
Bromomethane	U		0.00409	0.0138	1	10/22/2018 03:18	WG1184313
n-Butylbenzene	U		0.00424	0.0138	1	10/22/2018 03:18	WG1184313
sec-Butylbenzene	U		0.00280	0.0138	1	10/22/2018 03:18	WG1184313
tert-Butylbenzene	U		0.00171	0.00553	1	10/22/2018 03:18	WG1184313
Carbon disulfide	U		0.00449	0.0138	1	10/22/2018 03:18	WG1184313
Carbon tetrachloride	U		0.00119	0.00553	1	10/22/2018 03:18	WG1184313
Chlorobenzene	U		0.000633	0.00276	1	10/22/2018 03:18	WG1184313
Chlorodibromomethane	U		0.000497	0.00276	1	10/22/2018 03:18	WG1184313
Chloroethane	U		0.00119	0.00553	1	10/22/2018 03:18	WG1184313
Chloroform	0.00166	B J	0.000459	0.00276	1	10/22/2018 03:18	WG1184313
Chloromethane	U		0.00154	0.0138	1	10/22/2018 03:18	WG1184313
2-Chlorotoluene	U		0.00102	0.00276	1	10/22/2018 03:18	WG1184313
4-Chlorotoluene	U		0.00125	0.00553	1	10/22/2018 03:18	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00564	0.0276	1	10/22/2018 03:18	WG1184313
1,2-Dibromoethane	U		0.000580	0.00276	1	10/22/2018 03:18	WG1184313
Dibromomethane	U		0.00111	0.00553	1	10/22/2018 03:18	WG1184313
1,2-Dichlorobenzene	U		0.00160	0.00553	1	10/22/2018 03:18	WG1184313
1,3-Dichlorobenzene	U		0.00188	0.00553	1	10/22/2018 03:18	WG1184313
1,4-Dichlorobenzene	U		0.00218	0.00553	1	10/22/2018 03:18	WG1184313
Dichlorodifluoromethane	U		0.000904	0.00276	1	10/22/2018 03:18	WG1184313
1,1-Dichloroethane	U		0.000635	0.00276	1	10/22/2018 03:18	WG1184313
1,2-Dichloroethane	U		0.000525	0.00276	1	10/22/2018 03:18	WG1184313
1,1-Dichloroethene	0.00252	J	0.000553	0.00276	1	10/22/2018 03:18	WG1184313
cis-1,2-Dichloroethene	0.588		0.000763	0.00276	1	10/22/2018 03:18	WG1184313
trans-1,2-Dichloroethene	U		0.00158	0.00553	1	10/22/2018 03:18	WG1184313
1,2-Dichloropropane	U		0.00140	0.00553	1	10/22/2018 03:18	WG1184313
1,1-Dichloropropene	U		0.000774	0.00276	1	10/22/2018 03:18	WG1184313
1,3-Dichloropropane	U		0.00193	0.00553	1	10/22/2018 03:18	WG1184313
cis-1,3-Dichloropropene	U		0.000749	0.00276	1	10/22/2018 03:18	WG1184313
trans-1,3-Dichloropropene	U		0.00169	0.00553	1	10/22/2018 03:18	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00155	0.00553	1	10/22/2018 03:18	WG1184313
2,2-Dichloropropane	U	J4	0.000876	0.00276	1	10/22/2018 03:18	WG1184313
Di-isopropyl ether	U		0.00387	0.0111	10	10/23/2018 21:38	WG1185140
Ethylbenzene	U		0.000586	0.00276	1	10/22/2018 03:18	WG1184313
Hexachloro-1,3-butadiene	U		0.0140	0.0276	1	10/22/2018 03:18	WG1184313
2-Hexanone	U		0.0111	0.0276	1	10/22/2018 03:18	WG1184313
n-Hexane	U		0.00117	0.00553	1	10/22/2018 03:18	WG1184313
Iodomethane	U		0.00669	0.0138	1	10/22/2018 03:18	WG1184313
Isopropylbenzene	U		0.000954	0.00276	1	10/22/2018 03:18	WG1184313
p-Isopropyltoluene	U		0.00258	0.00553	1	10/22/2018 03:18	WG1184313
2-Butanone (MEK)	0.0234	J	0.0138	0.0276	1	10/22/2018 03:18	WG1184313
Methylene Chloride	U		0.00734	0.0276	1	10/22/2018 03:18	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0276	1	10/22/2018 03:18	WG1184313

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 10:50

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00326	0.0111	10	10/23/2018 21:38	WG1185140
Naphthalene	U		0.00345	0.0138	1	10/22/2018 03:18	WG1184313
n-Propylbenzene	U		0.00130	0.00553	1	10/22/2018 03:18	WG1184313
Styrene	U		0.00302	0.0138	1	10/22/2018 03:18	WG1184313
1,1,1,2-Tetrachloroethane	0.000619	J	0.000553	0.00276	1	10/22/2018 03:18	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000431	0.00276	1	10/22/2018 03:18	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000746	0.00276	1	10/22/2018 03:18	WG1184313
Tetrachloroethene	8.23		0.0619	0.221	80	10/25/2018 00:59	WG1185815
Toluene	U		0.00138	0.00553	1	10/22/2018 03:18	WG1184313
1,2,3-Trichlorobenzene	U		0.000691	0.00276	1	10/22/2018 03:18	WG1184313
1,2,4-Trichlorobenzene	U		0.0533	0.138	10	10/23/2018 21:38	WG1185140
1,1,1-Trichloroethane	U		0.000304	0.00276	1	10/22/2018 03:18	WG1184313
1,1,2-Trichloroethane	U		0.000976	0.00276	1	10/22/2018 03:18	WG1184313
Trichloroethene	1.38		0.00442	0.0111	10	10/23/2018 21:38	WG1185140
Trichlorofluoromethane	U		0.000553	0.00276	1	10/22/2018 03:18	WG1184313
1,2,3-Trichloropropane	U		0.00564	0.0138	1	10/22/2018 03:18	WG1184313
1,2,4-Trimethylbenzene	U		0.00128	0.00553	1	10/22/2018 03:18	WG1184313
1,2,3-Trimethylbenzene	U		0.00127	0.00553	1	10/22/2018 03:18	WG1184313
1,3,5-Trimethylbenzene	U		0.00119	0.00553	1	10/22/2018 03:18	WG1184313
Vinyl acetate	U		0.00389	0.0138	1	10/22/2018 03:18	WG1184313
Vinyl chloride	0.00167	J	0.000755	0.00276	1	10/22/2018 03:18	WG1184313
Xylenes, Total	U		0.00528	0.00718	1	10/22/2018 03:18	WG1184313
(S) Toluene-d8	98.0			75.0-131		10/22/2018 03:18	WG1184313
(S) Toluene-d8	117			75.0-131		10/23/2018 21:38	WG1185140
(S) Toluene-d8	103			75.0-131		10/25/2018 00:59	WG1185815
(S) Dibromofluoromethane	114			65.0-129		10/22/2018 03:18	WG1184313
(S) Dibromofluoromethane	98.4			65.0-129		10/23/2018 21:38	WG1185140
(S) Dibromofluoromethane	98.4			65.0-129		10/25/2018 00:59	WG1185815
(S) 4-Bromofluorobenzene	117			67.0-138		10/22/2018 03:18	WG1184313
(S) 4-Bromofluorobenzene	97.5			67.0-138		10/23/2018 21:38	WG1185140
(S) 4-Bromofluorobenzene	102			67.0-138		10/25/2018 00:59	WG1185815

Sample Narrative:

L1036155-19 WG1184313, WG1185140: Not all compounds reportable at lower dilution.

L1036155-19 WG1184313, WG1185140: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

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	87.5		1	10/24/2018 10:00	WG1184860

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0157	0.0286	1	10/22/2018 03:38	WG1184313
Acrylonitrile	U		0.00217	0.0143	1	10/22/2018 03:38	WG1184313
Benzene	U		0.000457	0.00114	1	10/23/2018 20:37	WG1185140
Bromobenzene	U		0.00120	0.0143	1	10/22/2018 03:38	WG1184313
Bromodichloromethane	U		0.000900	0.00286	1	10/22/2018 03:38	WG1184313
Bromochloromethane	U		0.00129	0.00571	1	10/22/2018 03:38	WG1184313
Bromoform	U		0.00683	0.0286	1	10/22/2018 03:38	WG1184313
Bromomethane	U		0.00423	0.0143	1	10/22/2018 03:38	WG1184313
n-Butylbenzene	U		0.00439	0.0143	1	10/22/2018 03:38	WG1184313
sec-Butylbenzene	U		0.00289	0.0143	1	10/22/2018 03:38	WG1184313
tert-Butylbenzene	U		0.00177	0.00571	1	10/22/2018 03:38	WG1184313
Carbon disulfide	U		0.00464	0.0143	1	10/22/2018 03:38	WG1184313
Carbon tetrachloride	U		0.00123	0.00571	1	10/22/2018 03:38	WG1184313
Chlorobenzene	U		0.000655	0.00286	1	10/22/2018 03:38	WG1184313
Chlorodibromomethane	U		0.000514	0.00286	1	10/22/2018 03:38	WG1184313
Chloroethane	U		0.00123	0.00571	1	10/22/2018 03:38	WG1184313
Chloroform	0.00165	B J	0.000474	0.00286	1	10/22/2018 03:38	WG1184313
Chloromethane	U		0.00159	0.0143	1	10/22/2018 03:38	WG1184313
2-Chlorotoluene	U		0.00105	0.00286	1	10/22/2018 03:38	WG1184313
4-Chlorotoluene	U		0.00129	0.00571	1	10/22/2018 03:38	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00583	0.0286	1	10/22/2018 03:38	WG1184313
1,2-Dibromoethane	U		0.000600	0.00286	1	10/22/2018 03:38	WG1184313
Dibromomethane	U		0.00114	0.00571	1	10/22/2018 03:38	WG1184313
1,2-Dichlorobenzene	U		0.00166	0.00571	1	10/22/2018 03:38	WG1184313
1,3-Dichlorobenzene	U		0.00194	0.00571	1	10/22/2018 03:38	WG1184313
1,4-Dichlorobenzene	U		0.00225	0.00571	1	10/22/2018 03:38	WG1184313
Dichlorodifluoromethane	U		0.000935	0.00286	1	10/22/2018 03:38	WG1184313
1,1-Dichloroethane	U		0.000657	0.00286	1	10/22/2018 03:38	WG1184313
1,2-Dichloroethane	U		0.000543	0.00286	1	10/22/2018 03:38	WG1184313
1,1-Dichloroethene	0.000710	J	0.000571	0.00286	1	10/22/2018 03:38	WG1184313
cis-1,2-Dichloroethene	0.00244	J	0.000788	0.00286	1	10/22/2018 03:38	WG1184313
trans-1,2-Dichloroethene	U		0.00163	0.00571	1	10/22/2018 03:38	WG1184313
1,2-Dichloropropane	U		0.00145	0.00571	1	10/22/2018 03:38	WG1184313
1,1-Dichloropropene	U		0.000800	0.00286	1	10/22/2018 03:38	WG1184313
1,3-Dichloropropane	U		0.00200	0.00571	1	10/22/2018 03:38	WG1184313
cis-1,3-Dichloropropene	U		0.000775	0.00286	1	10/22/2018 03:38	WG1184313
trans-1,3-Dichloropropene	U		0.00175	0.00571	1	10/22/2018 03:38	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00160	0.00571	1	10/22/2018 03:38	WG1184313
2,2-Dichloropropane	U	J4	0.000906	0.00286	1	10/22/2018 03:38	WG1184313
Di-isopropyl ether	U		0.000400	0.00114	1	10/23/2018 20:37	WG1185140
Ethylbenzene	U		0.000606	0.00286	1	10/22/2018 03:38	WG1184313
Hexachloro-1,3-butadiene	U		0.0145	0.0286	1	10/22/2018 03:38	WG1184313
2-Hexanone	U		0.0114	0.0286	1	10/22/2018 03:38	WG1184313
n-Hexane	0.00385	J	0.00121	0.00571	1	10/22/2018 03:38	WG1184313
Iodomethane	U		0.00691	0.0143	1	10/22/2018 03:38	WG1184313
Isopropylbenzene	U		0.000986	0.00286	1	10/22/2018 03:38	WG1184313
p-Isopropyltoluene	U		0.00266	0.00571	1	10/22/2018 03:38	WG1184313
2-Butanone (MEK)	0.0385		0.0143	0.0286	1	10/22/2018 03:38	WG1184313
Methylene Chloride	U		0.00759	0.0286	1	10/22/2018 03:38	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0286	1	10/22/2018 03:38	WG1184313

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 11:18

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000337	0.00114	1	10/23/2018 20:37	WG1185140
Naphthalene	U		0.00357	0.0143	1	10/22/2018 03:38	WG1184313
n-Propylbenzene	U		0.00135	0.00571	1	10/22/2018 03:38	WG1184313
Styrene	U		0.00312	0.0143	1	10/22/2018 03:38	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000571	0.00286	1	10/22/2018 03:38	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000446	0.00286	1	10/22/2018 03:38	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000771	0.00286	1	10/22/2018 03:38	WG1184313
Tetrachloroethene	0.0198		0.000800	0.00286	1	10/23/2018 20:37	WG1185140
Toluene	U		0.00143	0.00571	1	10/22/2018 03:38	WG1184313
1,2,3-Trichlorobenzene	U		0.000714	0.00286	1	10/22/2018 03:38	WG1184313
1,2,4-Trichlorobenzene	U		0.00551	0.0143	1	10/23/2018 20:37	WG1185140
1,1,1-Trichloroethane	U		0.000314	0.00286	1	10/22/2018 03:38	WG1184313
1,1,2-Trichloroethane	U		0.00101	0.00286	1	10/22/2018 03:38	WG1184313
Trichloroethene	0.000584	J	0.000457	0.00114	1	10/23/2018 20:37	WG1185140
Trichlorofluoromethane	U		0.000571	0.00286	1	10/22/2018 03:38	WG1184313
1,2,3-Trichloropropane	U		0.00583	0.0143	1	10/22/2018 03:38	WG1184313
1,2,4-Trimethylbenzene	U		0.00133	0.00571	1	10/22/2018 03:38	WG1184313
1,2,3-Trimethylbenzene	U		0.00131	0.00571	1	10/22/2018 03:38	WG1184313
1,3,5-Trimethylbenzene	U		0.00123	0.00571	1	10/22/2018 03:38	WG1184313
Vinyl acetate	U		0.00402	0.0143	1	10/22/2018 03:38	WG1184313
Vinyl chloride	U		0.000780	0.00286	1	10/22/2018 03:38	WG1184313
Xylenes, Total	U		0.00546	0.00743	1	10/22/2018 03:38	WG1184313
(S) Toluene-d8	101			75.0-131		10/22/2018 03:38	WG1184313
(S) Toluene-d8	124			75.0-131		10/23/2018 20:37	WG1185140
(S) Dibromofluoromethane	111			65.0-129		10/22/2018 03:38	WG1184313
(S) Dibromofluoromethane	94.6			65.0-129		10/23/2018 20:37	WG1185140
(S) 4-Bromofluorobenzene	121			67.0-138		10/22/2018 03:38	WG1184313
(S) 4-Bromofluorobenzene	86.4			67.0-138		10/23/2018 20:37	WG1185140

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	88.3		1	10/24/2018 10:00	WG1184860

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0155	0.0283	1	10/22/2018 03:58	WG1184313
Acrylonitrile	U		0.00215	0.0142	1	10/22/2018 03:58	WG1184313
Benzene	U		0.0362	0.0906	80	10/23/2018 22:59	WG1185140
Bromobenzene	U		0.00119	0.0142	1	10/22/2018 03:58	WG1184313
Bromodichloromethane	U		0.000892	0.00283	1	10/22/2018 03:58	WG1184313
Bromochloromethane	U		0.00128	0.00566	1	10/22/2018 03:58	WG1184313
Bromoform	U		0.00677	0.0283	1	10/22/2018 03:58	WG1184313
Bromomethane	U		0.00419	0.0142	1	10/22/2018 03:58	WG1184313
n-Butylbenzene	U		0.00435	0.0142	1	10/22/2018 03:58	WG1184313
sec-Butylbenzene	U		0.00286	0.0142	1	10/22/2018 03:58	WG1184313
tert-Butylbenzene	U		0.00176	0.00566	1	10/22/2018 03:58	WG1184313
Carbon disulfide	U		0.00460	0.0142	1	10/22/2018 03:58	WG1184313
Carbon tetrachloride	U		0.00122	0.00566	1	10/22/2018 03:58	WG1184313
Chlorobenzene	U		0.000649	0.00283	1	10/22/2018 03:58	WG1184313
Chlorodibromomethane	U		0.000510	0.00283	1	10/22/2018 03:58	WG1184313
Chloroethane	U		0.00122	0.00566	1	10/22/2018 03:58	WG1184313
Chloroform	0.00170	B J	0.000470	0.00283	1	10/22/2018 03:58	WG1184313
Chloromethane	U		0.00157	0.0142	1	10/22/2018 03:58	WG1184313
2-Chlorotoluene	U		0.00104	0.00283	1	10/22/2018 03:58	WG1184313
4-Chlorotoluene	U		0.00128	0.00566	1	10/22/2018 03:58	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00578	0.0283	1	10/22/2018 03:58	WG1184313
1,2-Dibromoethane	U		0.000594	0.00283	1	10/22/2018 03:58	WG1184313
Dibromomethane	U		0.00113	0.00566	1	10/22/2018 03:58	WG1184313
1,2-Dichlorobenzene	U		0.00164	0.00566	1	10/22/2018 03:58	WG1184313
1,3-Dichlorobenzene	U		0.00193	0.00566	1	10/22/2018 03:58	WG1184313
1,4-Dichlorobenzene	U		0.00223	0.00566	1	10/22/2018 03:58	WG1184313
Dichlorodifluoromethane	U		0.000926	0.00283	1	10/22/2018 03:58	WG1184313
1,1-Dichloroethane	U		0.000651	0.00283	1	10/22/2018 03:58	WG1184313
1,2-Dichloroethane	U		0.000538	0.00283	1	10/22/2018 03:58	WG1184313
1,1-Dichloroethene	U		0.000566	0.00283	1	10/22/2018 03:58	WG1184313
cis-1,2-Dichloroethene	0.00255	J	0.000781	0.00283	1	10/22/2018 03:58	WG1184313
trans-1,2-Dichloroethene	U		0.00162	0.00566	1	10/22/2018 03:58	WG1184313
1,2-Dichloropropane	U		0.00144	0.00566	1	10/22/2018 03:58	WG1184313
1,1-Dichloropropene	U		0.000793	0.00283	1	10/22/2018 03:58	WG1184313
1,3-Dichloropropane	U		0.00198	0.00566	1	10/22/2018 03:58	WG1184313
cis-1,3-Dichloropropene	U		0.000768	0.00283	1	10/22/2018 03:58	WG1184313
trans-1,3-Dichloropropene	U		0.00173	0.00566	1	10/22/2018 03:58	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00159	0.00566	1	10/22/2018 03:58	WG1184313
2,2-Dichloropropane	U	J4	0.000898	0.00283	1	10/22/2018 03:58	WG1184313
Di-isopropyl ether	U		0.0317	0.0906	80	10/23/2018 22:59	WG1185140
Ethylbenzene	U		0.000600	0.00283	1	10/22/2018 03:58	WG1184313
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	10/22/2018 03:58	WG1184313
2-Hexanone	U		0.0113	0.0283	1	10/22/2018 03:58	WG1184313
n-Hexane	U		0.00120	0.00566	1	10/22/2018 03:58	WG1184313
Iodomethane	U		0.00685	0.0142	1	10/22/2018 03:58	WG1184313
Isopropylbenzene	U		0.000977	0.00283	1	10/22/2018 03:58	WG1184313
p-Isopropyltoluene	U		0.00264	0.00566	1	10/22/2018 03:58	WG1184313
2-Butanone (MEK)	0.0396		0.0142	0.0283	1	10/22/2018 03:58	WG1184313
Methylene Chloride	U		0.00752	0.0283	1	10/22/2018 03:58	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	10/22/2018 03:58	WG1184313

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 11:20

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.0267	0.0906	80	10/23/2018 22:59	WG1185140
Naphthalene	U		0.00353	0.0142	1	10/22/2018 03:58	WG1184313
n-Propylbenzene	U		0.00134	0.00566	1	10/22/2018 03:58	WG1184313
Styrene	U		0.00309	0.0142	1	10/22/2018 03:58	WG1184313
1,1,1,2-Tetrachloroethane	0.000576	<u>L</u>	0.000566	0.00283	1	10/22/2018 03:58	WG1184313
1,1,2,2-Tetrachloroethane	0.000889	<u>L</u>	0.000442	0.00283	1	10/22/2018 03:58	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000764	0.00283	1	10/22/2018 03:58	WG1184313
Tetrachloroethene	25.2	<u>V3</u>	0.0634	0.226	80	10/23/2018 22:59	WG1185140
Toluene	0.00151	<u>L</u>	0.00142	0.00566	1	10/22/2018 03:58	WG1184313
1,2,3-Trichlorobenzene	U		0.000708	0.00283	1	10/22/2018 03:58	WG1184313
1,2,4-Trichlorobenzene	U		0.437	1.13	80	10/23/2018 22:59	WG1185140
1,1,1-Trichloroethane	U		0.000311	0.00283	1	10/22/2018 03:58	WG1184313
1,1,2-Trichloroethane	U		0.00100	0.00283	1	10/22/2018 03:58	WG1184313
Trichloroethene	U		0.0362	0.0906	80	10/23/2018 22:59	WG1185140
Trichlorofluoromethane	U		0.000566	0.00283	1	10/22/2018 03:58	WG1184313
1,2,3-Trichloropropane	U		0.00578	0.0142	1	10/22/2018 03:58	WG1184313
1,2,4-Trimethylbenzene	U		0.00131	0.00566	1	10/22/2018 03:58	WG1184313
1,2,3-Trimethylbenzene	U		0.00130	0.00566	1	10/22/2018 03:58	WG1184313
1,3,5-Trimethylbenzene	U		0.00122	0.00566	1	10/22/2018 03:58	WG1184313
Vinyl acetate	U		0.00399	0.0142	1	10/22/2018 03:58	WG1184313
Vinyl chloride	U		0.000773	0.00283	1	10/22/2018 03:58	WG1184313
Xylenes, Total	U		0.00541	0.00736	1	10/22/2018 03:58	WG1184313
(S) Toluene-d8	98.4			75.0-131		10/22/2018 03:58	WG1184313
(S) Toluene-d8	120			75.0-131		10/23/2018 22:59	WG1185140
(S) Dibromofluoromethane	110			65.0-129		10/22/2018 03:58	WG1184313
(S) Dibromofluoromethane	96.7			65.0-129		10/23/2018 22:59	WG1185140
(S) 4-Bromofluorobenzene	122			67.0-138		10/22/2018 03:58	WG1184313
(S) 4-Bromofluorobenzene	82.1			67.0-138		10/23/2018 22:59	WG1185140

Sample Narrative:

L1036155-21 WG1184313, WG1185140: Not all compounds reportable at lower dilution.

L1036155-21 WG1184313, WG1185140: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

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	83.5		1	10/24/2018 09:40	WG1184862

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0164	0.0300	1	10/22/2018 04:18	WG1184313
Acrylonitrile	U		0.00228	0.0150	1	10/22/2018 04:18	WG1184313
Benzene	U		0.00479	0.0120	10	10/23/2018 21:58	WG1185140
Bromobenzene	U		0.00126	0.0150	1	10/22/2018 04:18	WG1184313
Bromodichloromethane	U		0.000944	0.00300	1	10/22/2018 04:18	WG1184313
Bromochloromethane	U		0.00135	0.00599	1	10/22/2018 04:18	WG1184313
Bromoform	U		0.00717	0.0300	1	10/22/2018 04:18	WG1184313
Bromomethane	U		0.00443	0.0150	1	10/22/2018 04:18	WG1184313
n-Butylbenzene	U		0.00460	0.0150	1	10/22/2018 04:18	WG1184313
sec-Butylbenzene	U		0.00303	0.0150	1	10/22/2018 04:18	WG1184313
tert-Butylbenzene	U		0.00186	0.00599	1	10/22/2018 04:18	WG1184313
Carbon disulfide	U		0.00487	0.0150	1	10/22/2018 04:18	WG1184313
Carbon tetrachloride	U		0.00129	0.00599	1	10/22/2018 04:18	WG1184313
Chlorobenzene	U		0.000687	0.00300	1	10/22/2018 04:18	WG1184313
Chlorodibromomethane	U		0.000539	0.00300	1	10/22/2018 04:18	WG1184313
Chloroethane	U		0.00129	0.00599	1	10/22/2018 04:18	WG1184313
Chloroform	0.00196	B J	0.000497	0.00300	1	10/22/2018 04:18	WG1184313
Chloromethane	U		0.00167	0.0150	1	10/22/2018 04:18	WG1184313
2-Chlorotoluene	U		0.00110	0.00300	1	10/22/2018 04:18	WG1184313
4-Chlorotoluene	U		0.00135	0.00599	1	10/22/2018 04:18	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00611	0.0300	1	10/22/2018 04:18	WG1184313
1,2-Dibromoethane	U		0.000629	0.00300	1	10/22/2018 04:18	WG1184313
Dibromomethane	U		0.00120	0.00599	1	10/22/2018 04:18	WG1184313
1,2-Dichlorobenzene	U		0.00174	0.00599	1	10/22/2018 04:18	WG1184313
1,3-Dichlorobenzene	U		0.00204	0.00599	1	10/22/2018 04:18	WG1184313
1,4-Dichlorobenzene	U		0.00236	0.00599	1	10/22/2018 04:18	WG1184313
Dichlorodifluoromethane	U		0.000980	0.00300	1	10/22/2018 04:18	WG1184313
1,1-Dichloroethane	U		0.000689	0.00300	1	10/22/2018 04:18	WG1184313
1,2-Dichloroethane	U		0.000569	0.00300	1	10/22/2018 04:18	WG1184313
1,1-Dichloroethene	U		0.000599	0.00300	1	10/22/2018 04:18	WG1184313
cis-1,2-Dichloroethene	0.00234	J	0.000827	0.00300	1	10/22/2018 04:18	WG1184313
trans-1,2-Dichloroethene	U		0.00171	0.00599	1	10/22/2018 04:18	WG1184313
1,2-Dichloropropane	U		0.00152	0.00599	1	10/22/2018 04:18	WG1184313
1,1-Dichloropropene	U		0.000839	0.00300	1	10/22/2018 04:18	WG1184313
1,3-Dichloropropane	U		0.00210	0.00599	1	10/22/2018 04:18	WG1184313
cis-1,3-Dichloropropene	U		0.000812	0.00300	1	10/22/2018 04:18	WG1184313
trans-1,3-Dichloropropene	U		0.00183	0.00599	1	10/22/2018 04:18	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00168	0.00599	1	10/22/2018 04:18	WG1184313
2,2-Dichloropropane	U	J4	0.000950	0.00300	1	10/22/2018 04:18	WG1184313
Di-isopropyl ether	U		0.00419	0.0120	10	10/23/2018 21:58	WG1185140
Ethylbenzene	U		0.000635	0.00300	1	10/22/2018 04:18	WG1184313
Hexachloro-1,3-butadiene	U		0.0152	0.0300	1	10/22/2018 04:18	WG1184313
2-Hexanone	U		0.0120	0.0300	1	10/22/2018 04:18	WG1184313
n-Hexane	U		0.00127	0.00599	1	10/22/2018 04:18	WG1184313
Iodomethane	U		0.00725	0.0150	1	10/22/2018 04:18	WG1184313
Isopropylbenzene	U		0.00103	0.00300	1	10/22/2018 04:18	WG1184313
p-Isopropyltoluene	U		0.00279	0.00599	1	10/22/2018 04:18	WG1184313
2-Butanone (MEK)	0.0558		0.0150	0.0300	1	10/22/2018 04:18	WG1184313
Methylene Chloride	U		0.00796	0.0300	1	10/22/2018 04:18	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0300	1	10/22/2018 04:18	WG1184313

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 11:28

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00354	0.0120	10	10/23/2018 21:58	WG1185140
Naphthalene	U		0.00374	0.0150	1	10/22/2018 04:18	WG1184313
n-Propylbenzene	U		0.00141	0.00599	1	10/22/2018 04:18	WG1184313
Styrene	U		0.00327	0.0150	1	10/22/2018 04:18	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000599	0.00300	1	10/22/2018 04:18	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000467	0.00300	1	10/22/2018 04:18	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000809	0.00300	1	10/22/2018 04:18	WG1184313
Tetrachloroethene	7.13		0.0336	0.120	40	10/25/2018 01:18	WG1185815
Toluene	0.00162	J	0.00150	0.00599	1	10/22/2018 04:18	WG1184313
1,2,3-Trichlorobenzene	U		0.000749	0.00300	1	10/22/2018 04:18	WG1184313
1,2,4-Trichlorobenzene	U		0.0578	0.150	10	10/23/2018 21:58	WG1185140
1,1,1-Trichloroethane	U		0.000330	0.00300	1	10/22/2018 04:18	WG1184313
1,1,2-Trichloroethane	U		0.00106	0.00300	1	10/22/2018 04:18	WG1184313
Trichloroethene	U		0.00479	0.0120	10	10/23/2018 21:58	WG1185140
Trichlorofluoromethane	U		0.000599	0.00300	1	10/22/2018 04:18	WG1184313
1,2,3-Trichloropropane	U		0.00611	0.0150	1	10/22/2018 04:18	WG1184313
1,2,4-Trimethylbenzene	U		0.00139	0.00599	1	10/22/2018 04:18	WG1184313
1,2,3-Trimethylbenzene	U		0.00138	0.00599	1	10/22/2018 04:18	WG1184313
1,3,5-Trimethylbenzene	U		0.00129	0.00599	1	10/22/2018 04:18	WG1184313
Vinyl acetate	U		0.00422	0.0150	1	10/22/2018 04:18	WG1184313
Vinyl chloride	U		0.000818	0.00300	1	10/22/2018 04:18	WG1184313
Xylenes, Total	U		0.00573	0.00779	1	10/22/2018 04:18	WG1184313
(S) Toluene-d8	99.7			75.0-131		10/22/2018 04:18	WG1184313
(S) Toluene-d8	117			75.0-131		10/23/2018 21:58	WG1185140
(S) Toluene-d8	106			75.0-131		10/25/2018 01:18	WG1185815
(S) Dibromofluoromethane	112			65.0-129		10/22/2018 04:18	WG1184313
(S) Dibromofluoromethane	99.8			65.0-129		10/23/2018 21:58	WG1185140
(S) Dibromofluoromethane	101			65.0-129		10/25/2018 01:18	WG1185815
(S) 4-Bromofluorobenzene	122			67.0-138		10/22/2018 04:18	WG1184313
(S) 4-Bromofluorobenzene	94.2			67.0-138		10/23/2018 21:58	WG1185140
(S) 4-Bromofluorobenzene	104			67.0-138		10/25/2018 01:18	WG1185815

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

Sample Narrative:

L1036155-22 WG1184313, WG1185140: Not all compounds reportable at lower dilution.

L1036155-22 WG1184313, WG1185140: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.8		1	10/24/2018 09:40	WG1184862

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0158	0.0288	1	10/22/2018 04:38	WG1184313
Acrylonitrile	U		0.00219	0.0144	1	10/22/2018 04:38	WG1184313
Benzene	U		0.0184	0.0461	40	10/23/2018 22:39	WG1185140
Bromobenzene	U		0.00121	0.0144	1	10/22/2018 04:38	WG1184313
Bromodichloromethane	U		0.000908	0.00288	1	10/22/2018 04:38	WG1184313
Bromochloromethane	U		0.00130	0.00576	1	10/22/2018 04:38	WG1184313
Bromoform	U		0.00689	0.0288	1	10/22/2018 04:38	WG1184313
Bromomethane	U		0.00426	0.0144	1	10/22/2018 04:38	WG1184313
n-Butylbenzene	U		0.00442	0.0144	1	10/22/2018 04:38	WG1184313
sec-Butylbenzene	U		0.00292	0.0144	1	10/22/2018 04:38	WG1184313
tert-Butylbenzene	U		0.00179	0.00576	1	10/22/2018 04:38	WG1184313
Carbon disulfide	U		0.00468	0.0144	1	10/22/2018 04:38	WG1184313
Carbon tetrachloride	U		0.00124	0.00576	1	10/22/2018 04:38	WG1184313
Chlorobenzene	U		0.000660	0.00288	1	10/22/2018 04:38	WG1184313
Chlorodibromomethane	0.000554	J	0.000518	0.00288	1	10/22/2018 04:38	WG1184313
Chloroethane	U		0.00124	0.00576	1	10/22/2018 04:38	WG1184313
Chloroform	0.00198	B J	0.000478	0.00288	1	10/22/2018 04:38	WG1184313
Chloromethane	U		0.00160	0.0144	1	10/22/2018 04:38	WG1184313
2-Chlorotoluene	U		0.00106	0.00288	1	10/22/2018 04:38	WG1184313
4-Chlorotoluene	U		0.00130	0.00576	1	10/22/2018 04:38	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00588	0.0288	1	10/22/2018 04:38	WG1184313
1,2-Dibromoethane	U		0.000605	0.00288	1	10/22/2018 04:38	WG1184313
Dibromomethane	U		0.00115	0.00576	1	10/22/2018 04:38	WG1184313
1,2-Dichlorobenzene	U		0.00167	0.00576	1	10/22/2018 04:38	WG1184313
1,3-Dichlorobenzene	U		0.00196	0.00576	1	10/22/2018 04:38	WG1184313
1,4-Dichlorobenzene	U		0.00227	0.00576	1	10/22/2018 04:38	WG1184313
Dichlorodifluoromethane	U		0.000943	0.00288	1	10/22/2018 04:38	WG1184313
1,1-Dichloroethane	U		0.000663	0.00288	1	10/22/2018 04:38	WG1184313
1,2-Dichloroethane	U		0.000547	0.00288	1	10/22/2018 04:38	WG1184313
1,1-Dichloroethene	U		0.000576	0.00288	1	10/22/2018 04:38	WG1184313
cis-1,2-Dichloroethene	0.00359		0.000795	0.00288	1	10/22/2018 04:38	WG1184313
trans-1,2-Dichloroethene	U		0.00165	0.00576	1	10/22/2018 04:38	WG1184313
1,2-Dichloropropane	U		0.00146	0.00576	1	10/22/2018 04:38	WG1184313
1,1-Dichloropropene	U		0.000807	0.00288	1	10/22/2018 04:38	WG1184313
1,3-Dichloropropane	U		0.00202	0.00576	1	10/22/2018 04:38	WG1184313
cis-1,3-Dichloropropene	U		0.000781	0.00288	1	10/22/2018 04:38	WG1184313
trans-1,3-Dichloropropene	U		0.00176	0.00576	1	10/22/2018 04:38	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00161	0.00576	1	10/22/2018 04:38	WG1184313
2,2-Dichloropropane	U	J4	0.000914	0.00288	1	10/22/2018 04:38	WG1184313
Di-isopropyl ether	U		0.0161	0.0461	40	10/23/2018 22:39	WG1185140
Ethylbenzene	U		0.000611	0.00288	1	10/22/2018 04:38	WG1184313
Hexachloro-1,3-butadiene	U		0.0146	0.0288	1	10/22/2018 04:38	WG1184313
2-Hexanone	U		0.0115	0.0288	1	10/22/2018 04:38	WG1184313
n-Hexane	U		0.00122	0.00576	1	10/22/2018 04:38	WG1184313
Iodomethane	U		0.00697	0.0144	1	10/22/2018 04:38	WG1184313
Isopropylbenzene	U		0.000994	0.00288	1	10/22/2018 04:38	WG1184313
p-Isopropyltoluene	U		0.00268	0.00576	1	10/22/2018 04:38	WG1184313
2-Butanone (MEK)	0.0333		0.0144	0.0288	1	10/22/2018 04:38	WG1184313
Methylene Chloride	U		0.00765	0.0288	1	10/22/2018 04:38	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0288	1	10/22/2018 04:38	WG1184313

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 11:30

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.0136	0.0461	40	10/23/2018 22:39	WG1185140
Naphthalene	U		0.00359	0.0144	1	10/22/2018 04:38	WG1184313
n-Propylbenzene	U		0.00136	0.00576	1	10/22/2018 04:38	WG1184313
Styrene	U		0.00315	0.0144	1	10/22/2018 04:38	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000576	0.00288	1	10/22/2018 04:38	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000449	0.00288	1	10/22/2018 04:38	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000778	0.00288	1	10/22/2018 04:38	WG1184313
Tetrachloroethene	25.3	V3	0.0323	0.115	40	10/23/2018 22:39	WG1185140
Toluene	U		0.00144	0.00576	1	10/22/2018 04:38	WG1184313
1,2,3-Trichlorobenzene	U		0.000720	0.00288	1	10/22/2018 04:38	WG1184313
1,2,4-Trichlorobenzene	U		0.222	0.576	40	10/23/2018 22:39	WG1185140
1,1,1-Trichloroethane	U		0.000317	0.00288	1	10/22/2018 04:38	WG1184313
1,1,2-Trichloroethane	U		0.00102	0.00288	1	10/22/2018 04:38	WG1184313
Trichloroethene	U		0.0184	0.0461	40	10/23/2018 22:39	WG1185140
Trichlorofluoromethane	U		0.000576	0.00288	1	10/22/2018 04:38	WG1184313
1,2,3-Trichloropropane	U		0.00588	0.0144	1	10/22/2018 04:38	WG1184313
1,2,4-Trimethylbenzene	U		0.00134	0.00576	1	10/22/2018 04:38	WG1184313
1,2,3-Trimethylbenzene	U		0.00133	0.00576	1	10/22/2018 04:38	WG1184313
1,3,5-Trimethylbenzene	U		0.00124	0.00576	1	10/22/2018 04:38	WG1184313
Vinyl acetate	U		0.00406	0.0144	1	10/22/2018 04:38	WG1184313
Vinyl chloride	U		0.000787	0.00288	1	10/22/2018 04:38	WG1184313
Xylenes, Total	U		0.00551	0.00749	1	10/22/2018 04:38	WG1184313
(S) Toluene-d8	97.2			75.0-131		10/22/2018 04:38	WG1184313
(S) Toluene-d8	127			75.0-131		10/23/2018 22:39	WG1185140
(S) Dibromofluoromethane	111			65.0-129		10/22/2018 04:38	WG1184313
(S) Dibromofluoromethane	94.6			65.0-129		10/23/2018 22:39	WG1185140
(S) 4-Bromofluorobenzene	122			67.0-138		10/22/2018 04:38	WG1184313
(S) 4-Bromofluorobenzene	84.5			67.0-138		10/23/2018 22:39	WG1185140

Sample Narrative:

L1036155-23 WG1184313, WG1185140: Not all compounds reportable at lower dilution.

L1036155-23 WG1184313, WG1185140: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

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	91.0		1	10/24/2018 09:40	WG1184862

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0151	0.0275	1	10/22/2018 04:58	WG1184313
Acrylonitrile	U		0.00209	0.0137	1	10/22/2018 04:58	WG1184313
Benzene	U		0.00879	0.0220	20	10/23/2018 22:19	WG1185140
Bromobenzene	U		0.00115	0.0137	1	10/22/2018 04:58	WG1184313
Bromodichloromethane	U		0.000866	0.00275	1	10/22/2018 04:58	WG1184313
Bromochloromethane	U		0.00124	0.00549	1	10/22/2018 04:58	WG1184313
Bromoform	U		0.00657	0.0275	1	10/22/2018 04:58	WG1184313
Bromomethane	U		0.00407	0.0137	1	10/22/2018 04:58	WG1184313
n-Butylbenzene	U		0.00422	0.0137	1	10/22/2018 04:58	WG1184313
sec-Butylbenzene	U		0.00278	0.0137	1	10/22/2018 04:58	WG1184313
tert-Butylbenzene	U		0.00170	0.00549	1	10/22/2018 04:58	WG1184313
Carbon disulfide	U		0.00446	0.0137	1	10/22/2018 04:58	WG1184313
Carbon tetrachloride	U		0.00119	0.00549	1	10/22/2018 04:58	WG1184313
Chlorobenzene	U		0.000630	0.00275	1	10/22/2018 04:58	WG1184313
Chlorodibromomethane	U		0.000494	0.00275	1	10/22/2018 04:58	WG1184313
Chloroethane	U		0.00119	0.00549	1	10/22/2018 04:58	WG1184313
Chloroform	0.00171	B J	0.000456	0.00275	1	10/22/2018 04:58	WG1184313
Chloromethane	U		0.00153	0.0137	1	10/22/2018 04:58	WG1184313
2-Chlorotoluene	U		0.00101	0.00275	1	10/22/2018 04:58	WG1184313
4-Chlorotoluene	U		0.00124	0.00549	1	10/22/2018 04:58	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00560	0.0275	1	10/22/2018 04:58	WG1184313
1,2-Dibromoethane	U		0.000577	0.00275	1	10/22/2018 04:58	WG1184313
Dibromomethane	U		0.00110	0.00549	1	10/22/2018 04:58	WG1184313
1,2-Dichlorobenzene	U		0.00159	0.00549	1	10/22/2018 04:58	WG1184313
1,3-Dichlorobenzene	U		0.00187	0.00549	1	10/22/2018 04:58	WG1184313
1,4-Dichlorobenzene	U		0.00216	0.00549	1	10/22/2018 04:58	WG1184313
Dichlorodifluoromethane	U		0.000899	0.00275	1	10/22/2018 04:58	WG1184313
1,1-Dichloroethane	U		0.000632	0.00275	1	10/22/2018 04:58	WG1184313
1,2-Dichloroethane	U		0.000522	0.00275	1	10/22/2018 04:58	WG1184313
1,1-Dichloroethene	U		0.000549	0.00275	1	10/22/2018 04:58	WG1184313
cis-1,2-Dichloroethene	0.00353		0.000758	0.00275	1	10/22/2018 04:58	WG1184313
trans-1,2-Dichloroethene	U		0.00157	0.00549	1	10/22/2018 04:58	WG1184313
1,2-Dichloropropane	U		0.00140	0.00549	1	10/22/2018 04:58	WG1184313
1,1-Dichloropropene	U		0.000769	0.00275	1	10/22/2018 04:58	WG1184313
1,3-Dichloropropane	U		0.00192	0.00549	1	10/22/2018 04:58	WG1184313
cis-1,3-Dichloropropene	U		0.000745	0.00275	1	10/22/2018 04:58	WG1184313
trans-1,3-Dichloropropene	U		0.00168	0.00549	1	10/22/2018 04:58	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00154	0.00549	1	10/22/2018 04:58	WG1184313
2,2-Dichloropropane	U	J4	0.000871	0.00275	1	10/22/2018 04:58	WG1184313
Di-isopropyl ether	U		0.00769	0.0220	20	10/23/2018 22:19	WG1185140
Ethylbenzene	U		0.000582	0.00275	1	10/22/2018 04:58	WG1184313
Hexachloro-1,3-butadiene	U		0.0140	0.0275	1	10/22/2018 04:58	WG1184313
2-Hexanone	U		0.0110	0.0275	1	10/22/2018 04:58	WG1184313
n-Hexane	U		0.00116	0.00549	1	10/22/2018 04:58	WG1184313
Iodomethane	U		0.00665	0.0137	1	10/22/2018 04:58	WG1184313
Isopropylbenzene	U		0.000948	0.00275	1	10/22/2018 04:58	WG1184313
p-Isopropyltoluene	U		0.00256	0.00549	1	10/22/2018 04:58	WG1184313
2-Butanone (MEK)	0.0179	J	0.0137	0.0275	1	10/22/2018 04:58	WG1184313
Methylene Chloride	U		0.00730	0.0275	1	10/22/2018 04:58	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0275	1	10/22/2018 04:58	WG1184313

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 11:40

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00648	0.0220	20	10/23/2018 22:19	WG1185140
Naphthalene	U		0.00343	0.0137	1	10/22/2018 04:58	WG1184313
n-Propylbenzene	U		0.00130	0.00549	1	10/22/2018 04:58	WG1184313
Styrene	U		0.00300	0.0137	1	10/22/2018 04:58	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000549	0.00275	1	10/22/2018 04:58	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000429	0.00275	1	10/22/2018 04:58	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000742	0.00275	1	10/22/2018 04:58	WG1184313
Tetrachloroethene	13.1		0.0154	0.0549	20	10/23/2018 22:19	WG1185140
Toluene	U		0.00137	0.00549	1	10/22/2018 04:58	WG1184313
1,2,3-Trichlorobenzene	U		0.000687	0.00275	1	10/22/2018 04:58	WG1184313
1,2,4-Trichlorobenzene	U		0.106	0.275	20	10/23/2018 22:19	WG1185140
1,1,1-Trichloroethane	U		0.000302	0.00275	1	10/22/2018 04:58	WG1184313
1,1,2-Trichloroethane	U		0.000970	0.00275	1	10/22/2018 04:58	WG1184313
Trichloroethene	0.0284		0.00879	0.0220	20	10/23/2018 22:19	WG1185140
Trichlorofluoromethane	U		0.000549	0.00275	1	10/22/2018 04:58	WG1184313
1,2,3-Trichloropropane	U		0.00560	0.0137	1	10/22/2018 04:58	WG1184313
1,2,4-Trimethylbenzene	0.00228	L	0.00127	0.00549	1	10/22/2018 04:58	WG1184313
1,2,3-Trimethylbenzene	U		0.00126	0.00549	1	10/22/2018 04:58	WG1184313
1,3,5-Trimethylbenzene	U		0.00119	0.00549	1	10/22/2018 04:58	WG1184313
Vinyl acetate	U		0.00387	0.0137	1	10/22/2018 04:58	WG1184313
Vinyl chloride	U		0.000750	0.00275	1	10/22/2018 04:58	WG1184313
Xylenes, Total	U		0.00525	0.00714	1	10/22/2018 04:58	WG1184313
(S) Toluene-d8	96.7			75.0-131		10/22/2018 04:58	WG1184313
(S) Toluene-d8	116			75.0-131		10/23/2018 22:19	WG1185140
(S) Dibromofluoromethane	112			65.0-129		10/22/2018 04:58	WG1184313
(S) Dibromofluoromethane	102			65.0-129		10/23/2018 22:19	WG1185140
(S) 4-Bromofluorobenzene	121			67.0-138		10/22/2018 04:58	WG1184313
(S) 4-Bromofluorobenzene	87.8			67.0-138		10/23/2018 22:19	WG1185140

Sample Narrative:

L1036155-24 WG1184313, WG1185140: Not all compounds reportable at lower dilution.

L1036155-24 WG1184313, WG1185140: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

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	89.0		1	10/24/2018 09:40	WG1184862

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0154	0.0281	1	10/22/2018 05:18	WG1184313
Acrylonitrile	U		0.00214	0.0140	1	10/22/2018 05:18	WG1184313
Benzene	U		0.0899	0.225	200	10/23/2018 23:20	WG1185140
Bromobenzene	U		0.00118	0.0140	1	10/22/2018 05:18	WG1184313
Bromodichloromethane	U		0.000886	0.00281	1	10/22/2018 05:18	WG1184313
Bromochloromethane	U		0.00127	0.00562	1	10/22/2018 05:18	WG1184313
Bromoform	U		0.00672	0.0281	1	10/22/2018 05:18	WG1184313
Bromomethane	U		0.00416	0.0140	1	10/22/2018 05:18	WG1184313
n-Butylbenzene	U		0.00432	0.0140	1	10/22/2018 05:18	WG1184313
sec-Butylbenzene	U		0.00284	0.0140	1	10/22/2018 05:18	WG1184313
tert-Butylbenzene	U		0.00174	0.00562	1	10/22/2018 05:18	WG1184313
Carbon disulfide	U		0.00456	0.0140	1	10/22/2018 05:18	WG1184313
Carbon tetrachloride	U		0.00121	0.00562	1	10/22/2018 05:18	WG1184313
Chlorobenzene	U		0.000644	0.00281	1	10/22/2018 05:18	WG1184313
Chlorodibromomethane	0.000852	J	0.000506	0.00281	1	10/22/2018 05:18	WG1184313
Chloroethane	U		0.00121	0.00562	1	10/22/2018 05:18	WG1184313
Chloroform	0.00214	B J	0.000466	0.00281	1	10/22/2018 05:18	WG1184313
Chloromethane	U		0.00156	0.0140	1	10/22/2018 05:18	WG1184313
2-Chlorotoluene	U		0.00103	0.00281	1	10/22/2018 05:18	WG1184313
4-Chlorotoluene	U		0.00127	0.00562	1	10/22/2018 05:18	WG1184313
1,2-Dibromo-3-Chloropropane	U		0.00573	0.0281	1	10/22/2018 05:18	WG1184313
1,2-Dibromoethane	U		0.000590	0.00281	1	10/22/2018 05:18	WG1184313
Dibromomethane	U		0.00112	0.00562	1	10/22/2018 05:18	WG1184313
1,2-Dichlorobenzene	U		0.00163	0.00562	1	10/22/2018 05:18	WG1184313
1,3-Dichlorobenzene	U		0.00191	0.00562	1	10/22/2018 05:18	WG1184313
1,4-Dichlorobenzene	U		0.00221	0.00562	1	10/22/2018 05:18	WG1184313
Dichlorodifluoromethane	U		0.000919	0.00281	1	10/22/2018 05:18	WG1184313
1,1-Dichloroethane	U		0.000646	0.00281	1	10/22/2018 05:18	WG1184313
1,2-Dichloroethane	U		0.000534	0.00281	1	10/22/2018 05:18	WG1184313
1,1-Dichloroethene	0.00239	J	0.000562	0.00281	1	10/22/2018 05:18	WG1184313
cis-1,2-Dichloroethene	0.105		0.000775	0.00281	1	10/22/2018 05:18	WG1184313
trans-1,2-Dichloroethene	0.00200	J	0.00161	0.00562	1	10/22/2018 05:18	WG1184313
1,2-Dichloropropane	U		0.00143	0.00562	1	10/22/2018 05:18	WG1184313
1,1-Dichloropropene	U		0.000787	0.00281	1	10/22/2018 05:18	WG1184313
1,3-Dichloropropane	U		0.00197	0.00562	1	10/22/2018 05:18	WG1184313
cis-1,3-Dichloropropene	U		0.000762	0.00281	1	10/22/2018 05:18	WG1184313
trans-1,3-Dichloropropene	U		0.00172	0.00562	1	10/22/2018 05:18	WG1184313
trans-1,4-Dichloro-2-butene	U		0.00157	0.00562	1	10/22/2018 05:18	WG1184313
2,2-Dichloropropane	U	J4	0.000891	0.00281	1	10/22/2018 05:18	WG1184313
Di-isopropyl ether	U		0.0787	0.225	200	10/23/2018 23:20	WG1185140
Ethylbenzene	0.000806	J	0.000596	0.00281	1	10/22/2018 05:18	WG1184313
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	10/22/2018 05:18	WG1184313
2-Hexanone	U		0.0112	0.0281	1	10/22/2018 05:18	WG1184313
n-Hexane	U		0.00119	0.00562	1	10/22/2018 05:18	WG1184313
Iodomethane	U		0.00680	0.0140	1	10/22/2018 05:18	WG1184313
Isopropylbenzene	U		0.000970	0.00281	1	10/22/2018 05:18	WG1184313
p-Isopropyltoluene	0.00394	J	0.00262	0.00562	1	10/22/2018 05:18	WG1184313
2-Butanone (MEK)	0.0256	J	0.0140	0.0281	1	10/22/2018 05:18	WG1184313
Methylene Chloride	U		0.00746	0.0281	1	10/22/2018 05:18	WG1184313
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	10/22/2018 05:18	WG1184313

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 11:42

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.0663	0.225	200	10/23/2018 23:20	WG1185140
Naphthalene	U		0.00351	0.0140	1	10/22/2018 05:18	WG1184313
n-Propylbenzene	0.00321	U	0.00133	0.00562	1	10/22/2018 05:18	WG1184313
Styrene	U		0.00307	0.0140	1	10/22/2018 05:18	WG1184313
1,1,1,2-Tetrachloroethane	U		0.000562	0.00281	1	10/22/2018 05:18	WG1184313
1,1,2,2-Tetrachloroethane	U		0.000438	0.00281	1	10/22/2018 05:18	WG1184313
1,1,2-Trichlorotrifluoroethane	U		0.000759	0.00281	1	10/22/2018 05:18	WG1184313
Tetrachloroethene	112	V3	0.157	0.562	200	10/23/2018 23:20	WG1185140
Toluene	0.00203	U	0.00140	0.00562	1	10/22/2018 05:18	WG1184313
1,2,3-Trichlorobenzene	U		0.000702	0.00281	1	10/22/2018 05:18	WG1184313
1,2,4-Trichlorobenzene	U		1.08	2.81	200	10/23/2018 23:20	WG1185140
1,1,1-Trichloroethane	U		0.000309	0.00281	1	10/22/2018 05:18	WG1184313
1,1,2-Trichloroethane	U		0.000992	0.00281	1	10/22/2018 05:18	WG1184313
Trichloroethene	0.908		0.0899	0.225	200	10/23/2018 23:20	WG1185140
Trichlorofluoromethane	U		0.000562	0.00281	1	10/22/2018 05:18	WG1184313
1,2,3-Trichloropropane	U		0.00573	0.0140	1	10/22/2018 05:18	WG1184313
1,2,4-Trimethylbenzene	0.0136		0.00130	0.00562	1	10/22/2018 05:18	WG1184313
1,2,3-Trimethylbenzene	0.00393	U	0.00129	0.00562	1	10/22/2018 05:18	WG1184313
1,3,5-Trimethylbenzene	0.00399	U	0.00121	0.00562	1	10/22/2018 05:18	WG1184313
Vinyl acetate	U		0.00396	0.0140	1	10/22/2018 05:18	WG1184313
Vinyl chloride	U		0.000768	0.00281	1	10/22/2018 05:18	WG1184313
Xylenes, Total	U		0.00537	0.00730	1	10/22/2018 05:18	WG1184313
(S) Toluene-d8	89.7			75.0-131		10/22/2018 05:18	WG1184313
(S) Toluene-d8	120			75.0-131		10/23/2018 23:20	WG1185140
(S) Dibromofluoromethane	111			65.0-129		10/22/2018 05:18	WG1184313
(S) Dibromofluoromethane	95.1			65.0-129		10/23/2018 23:20	WG1185140
(S) 4-Bromofluorobenzene	121			67.0-138		10/22/2018 05:18	WG1184313
(S) 4-Bromofluorobenzene	78.4			67.0-138		10/23/2018 23:20	WG1185140

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

Sample Narrative:

L1036155-25 WG1184313, WG1185140: Not all compounds reportable at lower dilution.

L1036155-25 WG1184313, WG1185140: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.9		1	10/24/2018 09:40	WG1184862

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		1.30	2.36	80	10/24/2018 01:06	WG1185221
Acrylonitrile	U		0.00224	0.0147	1	10/22/2018 15:59	WG1184455
Benzene	U		0.000471	0.00118	1	10/22/2018 15:59	WG1184455
Bromobenzene	U		0.00124	0.0147	1	10/22/2018 15:59	WG1184455
Bromodichloromethane	U		0.000928	0.00294	1	10/22/2018 15:59	WG1184455
Bromochloromethane	U		0.00133	0.00589	1	10/22/2018 15:59	WG1184455
Bromoform	U		0.00704	0.0294	1	10/22/2018 15:59	WG1184455
Bromomethane	U		0.00436	0.0147	1	10/22/2018 15:59	WG1184455
n-Butylbenzene	U		0.00452	0.0147	1	10/22/2018 15:59	WG1184455
sec-Butylbenzene	U		0.00298	0.0147	1	10/22/2018 15:59	WG1184455
tert-Butylbenzene	U		0.00183	0.00589	1	10/22/2018 15:59	WG1184455
Carbon disulfide	U		0.00478	0.0147	1	10/22/2018 15:59	WG1184455
Carbon tetrachloride	U		0.00127	0.00589	1	10/22/2018 15:59	WG1184455
Chlorobenzene	U		0.000675	0.00294	1	10/22/2018 15:59	WG1184455
Chlorodibromomethane	U		0.000530	0.00294	1	10/22/2018 15:59	WG1184455
Chloroethane	U		0.00127	0.00589	1	10/22/2018 15:59	WG1184455
Chloroform	0.00115	B J	0.000489	0.00294	1	10/22/2018 15:59	WG1184455
Chloromethane	U		0.00164	0.0147	1	10/22/2018 15:59	WG1184455
2-Chlorotoluene	U		0.00108	0.00294	1	10/22/2018 15:59	WG1184455
4-Chlorotoluene	U		0.00133	0.00589	1	10/22/2018 15:59	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00601	0.0294	1	10/22/2018 15:59	WG1184455
1,2-Dibromoethane	U		0.000618	0.00294	1	10/22/2018 15:59	WG1184455
Dibromomethane	U		0.00118	0.00589	1	10/22/2018 15:59	WG1184455
1,2-Dichlorobenzene	U		0.00171	0.00589	1	10/22/2018 15:59	WG1184455
1,3-Dichlorobenzene	U		0.00200	0.00589	1	10/22/2018 15:59	WG1184455
1,4-Dichlorobenzene	U		0.00232	0.00589	1	10/22/2018 15:59	WG1184455
Dichlorodifluoromethane	U		0.0770	0.236	80	10/24/2018 01:06	WG1185221
1,1-Dichloroethane	U		0.000677	0.00294	1	10/22/2018 15:59	WG1184455
1,2-Dichloroethane	U		0.000560	0.00294	1	10/22/2018 15:59	WG1184455
1,1-Dichloroethene	U		0.000589	0.00294	1	10/22/2018 15:59	WG1184455
cis-1,2-Dichloroethene	U		0.0650	0.236	80	10/24/2018 01:06	WG1185221
trans-1,2-Dichloroethene	U		0.00168	0.00589	1	10/22/2018 15:59	WG1184455
1,2-Dichloropropane	U		0.00150	0.00589	1	10/22/2018 15:59	WG1184455
1,1-Dichloropropene	U		0.000825	0.00294	1	10/22/2018 15:59	WG1184455
1,3-Dichloropropane	U		0.00206	0.00589	1	10/22/2018 15:59	WG1184455
cis-1,3-Dichloropropene	U		0.000799	0.00294	1	10/22/2018 15:59	WG1184455
trans-1,3-Dichloropropene	U	J4	0.00180	0.00589	1	10/22/2018 15:59	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00165	0.00589	1	10/22/2018 15:59	WG1184455
2,2-Dichloropropane	U		0.000934	0.00294	1	10/22/2018 15:59	WG1184455
Di-isopropyl ether	U		0.000412	0.00118	1	10/22/2018 15:59	WG1184455
Ethylbenzene	0.00214	J	0.000624	0.00294	1	10/22/2018 15:59	WG1184455
Hexachloro-1,3-butadiene	U		0.0150	0.0294	1	10/22/2018 15:59	WG1184455
2-Hexanone	U		0.0118	0.0294	1	10/22/2018 15:59	WG1184455
n-Hexane	U		0.00125	0.00589	1	10/22/2018 15:59	WG1184455
Iodomethane	U		0.00713	0.0147	1	10/22/2018 15:59	WG1184455
Isopropylbenzene	U		0.00102	0.00294	1	10/22/2018 15:59	WG1184455
p-Isopropyltoluene	U		0.00274	0.00589	1	10/22/2018 15:59	WG1184455
2-Butanone (MEK)	0.0207	J	0.0147	0.0294	1	10/22/2018 15:59	WG1184455
Methylene Chloride	U		0.00782	0.0294	1	10/22/2018 15:59	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0294	1	10/22/2018 15:59	WG1184455

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 13:32

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000348	0.00118	1	10/22/2018 15:59	WG1184455
Naphthalene	0.00764	J	0.00368	0.0147	1	10/22/2018 15:59	WG1184455
n-Propylbenzene	U		0.00139	0.00589	1	10/22/2018 15:59	WG1184455
Styrene	U		0.00322	0.0147	1	10/22/2018 15:59	WG1184455
1,1,1,2-Tetrachloroethane	U	J4	0.000589	0.00294	1	10/22/2018 15:59	WG1184455
1,1,2,2-Tetrachloroethane	U		0.0368	0.236	80	10/24/2018 01:06	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000795	0.00294	1	10/22/2018 15:59	WG1184455
Tetrachloroethene	14.4	JO	0.0660	0.236	80	10/24/2018 01:06	WG1185221
Toluene	0.00858		0.00147	0.00589	1	10/22/2018 15:59	WG1184455
1,2,3-Trichlorobenzene	U		0.0589	0.236	80	10/24/2018 01:06	WG1185221
1,2,4-Trichlorobenzene	U		0.00568	0.0147	1	10/22/2018 15:59	WG1184455
1,1,1-Trichloroethane	U		0.000324	0.00294	1	10/22/2018 15:59	WG1184455
1,1,2-Trichloroethane	U		0.00104	0.00294	1	10/22/2018 15:59	WG1184455
Trichloroethene	0.0142		0.000471	0.00118	1	10/22/2018 15:59	WG1184455
Trichlorofluoromethane	U		0.000589	0.00294	1	10/22/2018 15:59	WG1184455
1,2,3-Trichloropropane	U		0.00601	0.0147	1	10/22/2018 15:59	WG1184455
1,2,4-Trimethylbenzene	0.00354	J	0.00137	0.00589	1	10/22/2018 15:59	WG1184455
1,2,3-Trimethylbenzene	U		0.00135	0.00589	1	10/22/2018 15:59	WG1184455
1,3,5-Trimethylbenzene	U		0.00127	0.00589	1	10/22/2018 15:59	WG1184455
Vinyl acetate	U		0.00415	0.0147	1	10/22/2018 15:59	WG1184455
Vinyl chloride	U		0.000805	0.00294	1	10/22/2018 15:59	WG1184455
Xylenes, Total	0.00775		0.00563	0.00766	1	10/22/2018 15:59	WG1184455
(S) Toluene-d8	115			75.0-131		10/22/2018 15:59	WG1184455
(S) Toluene-d8	97.2			75.0-131		10/24/2018 01:06	WG1185221
(S) Dibromofluoromethane	88.8			65.0-129		10/22/2018 15:59	WG1184455
(S) Dibromofluoromethane	120			65.0-129		10/24/2018 01:06	WG1185221
(S) 4-Bromofluorobenzene	93.4			67.0-138		10/22/2018 15:59	WG1184455
(S) 4-Bromofluorobenzene	123			67.0-138		10/24/2018 01:06	WG1185221

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

Sample Narrative:

L1036155-26 WG1185221, WG1184455: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036155-26 WG1185221, WG1184455: Not all compounds reportable at lower dilution.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.9		1	10/24/2018 09:40	WG1184862

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0214	<u>J</u>	0.0151	0.0275	1	10/23/2018 16:01	WG1185221
Acrylonitrile	U		0.00209	0.0137	1	10/22/2018 16:17	WG1184455
Benzene	U		0.000440	0.00110	1	10/22/2018 16:17	WG1184455
Bromobenzene	U		0.00115	0.0137	1	10/22/2018 16:17	WG1184455
Bromodichloromethane	U		0.000867	0.00275	1	10/22/2018 16:17	WG1184455
Bromochloromethane	U		0.00124	0.00550	1	10/22/2018 16:17	WG1184455
Bromoform	U		0.00658	0.0275	1	10/22/2018 16:17	WG1184455
Bromomethane	U		0.00407	0.0137	1	10/22/2018 16:17	WG1184455
n-Butylbenzene	U		0.00422	0.0137	1	10/22/2018 16:17	WG1184455
sec-Butylbenzene	U		0.00278	0.0137	1	10/22/2018 16:17	WG1184455
tert-Butylbenzene	U		0.00170	0.00550	1	10/22/2018 16:17	WG1184455
Carbon disulfide	U		0.00447	0.0137	1	10/22/2018 16:17	WG1184455
Carbon tetrachloride	U		0.00119	0.00550	1	10/22/2018 16:17	WG1184455
Chlorobenzene	U		0.000630	0.00275	1	10/22/2018 16:17	WG1184455
Chlorodibromomethane	U		0.000495	0.00275	1	10/22/2018 16:17	WG1184455
Chloroethane	U		0.00119	0.00550	1	10/22/2018 16:17	WG1184455
Chloroform	U		0.000456	0.00275	1	10/22/2018 16:17	WG1184455
Chloromethane	U		0.00153	0.0137	1	10/22/2018 16:17	WG1184455
2-Chlorotoluene	U		0.00101	0.00275	1	10/22/2018 16:17	WG1184455
4-Chlorotoluene	U		0.00124	0.00550	1	10/22/2018 16:17	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00561	0.0275	1	10/22/2018 16:17	WG1184455
1,2-Dibromoethane	U		0.000577	0.00275	1	10/22/2018 16:17	WG1184455
Dibromomethane	U		0.00110	0.00550	1	10/22/2018 16:17	WG1184455
1,2-Dichlorobenzene	U		0.00159	0.00550	1	10/22/2018 16:17	WG1184455
1,3-Dichlorobenzene	U		0.00187	0.00550	1	10/22/2018 16:17	WG1184455
1,4-Dichlorobenzene	U		0.00217	0.00550	1	10/22/2018 16:17	WG1184455
Dichlorodifluoromethane	U		0.000900	0.00275	1	10/23/2018 16:01	WG1185221
1,1-Dichloroethane	U		0.000632	0.00275	1	10/22/2018 16:17	WG1184455
1,2-Dichloroethane	U		0.000522	0.00275	1	10/22/2018 16:17	WG1184455
1,1-Dichloroethene	U		0.000550	0.00275	1	10/22/2018 16:17	WG1184455
cis-1,2-Dichloroethene	0.00981		0.000759	0.00275	1	10/23/2018 16:01	WG1185221
trans-1,2-Dichloroethene	U		0.00157	0.00550	1	10/22/2018 16:17	WG1184455
1,2-Dichloropropane	U		0.00140	0.00550	1	10/22/2018 16:17	WG1184455
1,1-Dichloropropene	U		0.000770	0.00275	1	10/22/2018 16:17	WG1184455
1,3-Dichloropropane	U		0.00192	0.00550	1	10/22/2018 16:17	WG1184455
cis-1,3-Dichloropropene	U		0.000746	0.00275	1	10/22/2018 16:17	WG1184455
trans-1,3-Dichloropropene	U	<u>J4</u>	0.00168	0.00550	1	10/22/2018 16:17	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00154	0.00550	1	10/22/2018 16:17	WG1184455
2,2-Dichloropropane	U		0.000872	0.00275	1	10/22/2018 16:17	WG1184455
Di-isopropyl ether	U		0.000385	0.00110	1	10/22/2018 16:17	WG1184455
Ethylbenzene	U		0.000583	0.00275	1	10/22/2018 16:17	WG1184455
Hexachloro-1,3-butadiene	U		0.0140	0.0275	1	10/22/2018 16:17	WG1184455
2-Hexanone	U		0.0110	0.0275	1	10/22/2018 16:17	WG1184455
n-Hexane	U		0.00117	0.00550	1	10/23/2018 16:01	WG1185221
Iodomethane	U		0.00665	0.0137	1	10/22/2018 16:17	WG1184455
Isopropylbenzene	U		0.000949	0.00275	1	10/22/2018 16:17	WG1184455
p-Isopropyltoluene	U		0.00256	0.00550	1	10/22/2018 16:17	WG1184455
2-Butanone (MEK)	U		0.0137	0.0275	1	10/22/2018 16:17	WG1184455
Methylene Chloride	U		0.00730	0.0275	1	10/22/2018 16:17	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0275	1	10/22/2018 16:17	WG1184455

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		0.000324	0.00110	1	10/22/2018 16:17	WG1184455
Naphthalene	U		0.00343	0.0137	1	10/22/2018 16:17	WG1184455
n-Propylbenzene	U		0.00130	0.00550	1	10/22/2018 16:17	WG1184455
Styrene	U		0.00300	0.0137	1	10/22/2018 16:17	WG1184455
1,1,1,2-Tetrachloroethane	U	<u>J4</u>	0.000550	0.00275	1	10/22/2018 16:17	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000429	0.00275	1	10/23/2018 16:01	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000742	0.00275	1	10/22/2018 16:17	WG1184455
Tetrachloroethene	0.612		0.000770	0.00275	1	10/24/2018 23:43	WG1185845
Toluene	U		0.00137	0.00550	1	10/22/2018 16:17	WG1184455
1,2,3-Trichlorobenzene	U		0.000687	0.00275	1	10/23/2018 16:01	WG1185221
1,2,4-Trichlorobenzene	U		0.00530	0.0137	1	10/22/2018 16:17	WG1184455
1,1,1-Trichloroethane	U		0.000302	0.00275	1	10/22/2018 16:17	WG1184455
1,1,2-Trichloroethane	U		0.000971	0.00275	1	10/22/2018 16:17	WG1184455
Trichloroethene	0.00725		0.000440	0.00110	1	10/22/2018 16:17	WG1184455
Trichlorofluoromethane	U		0.000550	0.00275	1	10/22/2018 16:17	WG1184455
1,2,3-Trichloropropane	U		0.00561	0.0137	1	10/22/2018 16:17	WG1184455
1,2,4-Trimethylbenzene	U		0.00128	0.00550	1	10/22/2018 16:17	WG1184455
1,2,3-Trimethylbenzene	U		0.00126	0.00550	1	10/22/2018 16:17	WG1184455
1,3,5-Trimethylbenzene	U		0.00119	0.00550	1	10/22/2018 16:17	WG1184455
Vinyl acetate	U		0.00387	0.0137	1	10/22/2018 16:17	WG1184455
Vinyl chloride	U		0.000751	0.00275	1	10/22/2018 16:17	WG1184455
Xylenes, Total	U		0.00526	0.00715	1	10/22/2018 16:17	WG1184455
(S) Toluene-d8	107			75.0-131		10/22/2018 16:17	WG1184455
(S) Toluene-d8	101			75.0-131		10/23/2018 16:01	WG1185221
(S) Toluene-d8	107			75.0-131		10/24/2018 23:43	WG1185845
(S) Dibromofluoromethane	87.3			65.0-129		10/22/2018 16:17	WG1184455
(S) Dibromofluoromethane	114			65.0-129		10/23/2018 16:01	WG1185221
(S) Dibromofluoromethane	97.8			65.0-129		10/24/2018 23:43	WG1185845
(S) 4-Bromofluorobenzene	91.7			67.0-138		10/22/2018 16:17	WG1184455
(S) 4-Bromofluorobenzene	121			67.0-138		10/23/2018 16:01	WG1185221
(S) 4-Bromofluorobenzene	103			67.0-138		10/24/2018 23:43	WG1185845

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	89.8		1	10/24/2018 09:40	WG1184862

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0153	0.0278	1	10/23/2018 16:21	WG1185221
Acrylonitrile	U		0.00212	0.0139	1	10/22/2018 16:36	WG1184455
Benzene	U		0.000445	0.00111	1	10/22/2018 16:36	WG1184455
Bromobenzene	U		0.00117	0.0139	1	10/22/2018 16:36	WG1184455
Bromodichloromethane	U		0.000878	0.00278	1	10/22/2018 16:36	WG1184455
Bromochloromethane	U		0.00126	0.00557	1	10/22/2018 16:36	WG1184455
Bromoform	U		0.00666	0.0278	1	10/22/2018 16:36	WG1184455
Bromomethane	U		0.00412	0.0139	1	10/22/2018 16:36	WG1184455
n-Butylbenzene	U		0.00428	0.0139	1	10/22/2018 16:36	WG1184455
sec-Butylbenzene	U		0.00282	0.0139	1	10/22/2018 16:36	WG1184455
tert-Butylbenzene	U		0.00173	0.00557	1	10/22/2018 16:36	WG1184455
Carbon disulfide	U		0.00452	0.0139	1	10/22/2018 16:36	WG1184455
Carbon tetrachloride	U		0.00120	0.00557	1	10/22/2018 16:36	WG1184455
Chlorobenzene	U		0.000638	0.00278	1	10/22/2018 16:36	WG1184455
Chlorodibromomethane	U		0.000501	0.00278	1	10/22/2018 16:36	WG1184455
Chloroethane	U		0.00120	0.00557	1	10/22/2018 16:36	WG1184455
Chloroform	0.00103	B J	0.000462	0.00278	1	10/22/2018 16:36	WG1184455
Chloromethane	U		0.00155	0.0139	1	10/22/2018 16:36	WG1184455
2-Chlorotoluene	U		0.00102	0.00278	1	10/22/2018 16:36	WG1184455
4-Chlorotoluene	U		0.00126	0.00557	1	10/22/2018 16:36	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00568	0.0278	1	10/22/2018 16:36	WG1184455
1,2-Dibromoethane	U		0.000585	0.00278	1	10/22/2018 16:36	WG1184455
Dibromomethane	U		0.00111	0.00557	1	10/22/2018 16:36	WG1184455
1,2-Dichlorobenzene	U		0.00161	0.00557	1	10/22/2018 16:36	WG1184455
1,3-Dichlorobenzene	U		0.00189	0.00557	1	10/22/2018 16:36	WG1184455
1,4-Dichlorobenzene	U		0.00219	0.00557	1	10/22/2018 16:36	WG1184455
Dichlorodifluoromethane	U		0.000911	0.00278	1	10/23/2018 16:21	WG1185221
1,1-Dichloroethane	U		0.000640	0.00278	1	10/22/2018 16:36	WG1184455
1,2-Dichloroethane	U		0.000529	0.00278	1	10/22/2018 16:36	WG1184455
1,1-Dichloroethene	U		0.000557	0.00278	1	10/22/2018 16:36	WG1184455
cis-1,2-Dichloroethene	0.00190	J	0.000768	0.00278	1	10/23/2018 16:21	WG1185221
trans-1,2-Dichloroethene	U		0.00159	0.00557	1	10/22/2018 16:36	WG1184455
1,2-Dichloropropane	U		0.00141	0.00557	1	10/22/2018 16:36	WG1184455
1,1-Dichloropropene	U		0.000780	0.00278	1	10/22/2018 16:36	WG1184455
1,3-Dichloropropane	U		0.00195	0.00557	1	10/22/2018 16:36	WG1184455
cis-1,3-Dichloropropene	U		0.000755	0.00278	1	10/22/2018 16:36	WG1184455
trans-1,3-Dichloropropene	U	J4	0.00170	0.00557	1	10/22/2018 16:36	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00156	0.00557	1	10/22/2018 16:36	WG1184455
2,2-Dichloropropane	U		0.000883	0.00278	1	10/22/2018 16:36	WG1184455
Di-isopropyl ether	U		0.000390	0.00111	1	10/22/2018 16:36	WG1184455
Ethylbenzene	U		0.000590	0.00278	1	10/22/2018 16:36	WG1184455
Hexachloro-1,3-butadiene	U		0.0141	0.0278	1	10/22/2018 16:36	WG1184455
2-Hexanone	U		0.0111	0.0278	1	10/22/2018 16:36	WG1184455
n-Hexane	U		0.00118	0.00557	1	10/22/2018 16:36	WG1184455
Iodomethane	U		0.00674	0.0139	1	10/22/2018 16:36	WG1184455
Isopropylbenzene	U		0.000961	0.00278	1	10/22/2018 16:36	WG1184455
p-Isopropyltoluene	U		0.00259	0.00557	1	10/22/2018 16:36	WG1184455
2-Butanone (MEK)	0.0232	J	0.0139	0.0278	1	10/22/2018 16:36	WG1184455
Methylene Chloride	U		0.00739	0.0278	1	10/22/2018 16:36	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0278	1	10/22/2018 16:36	WG1184455

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 13:45

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000329	0.0011	1	10/22/2018 16:36	WG1184455
Naphthalene	U		0.00347	0.0139	1	10/22/2018 16:36	WG1184455
n-Propylbenzene	U		0.00131	0.00557	1	10/22/2018 16:36	WG1184455
Styrene	U		0.00304	0.0139	1	10/22/2018 16:36	WG1184455
1,1,1,2-Tetrachloroethane	U	J4	0.000557	0.00278	1	10/22/2018 16:36	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000434	0.00278	1	10/23/2018 16:21	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000752	0.00278	1	10/22/2018 16:36	WG1184455
Tetrachloroethene	0.495		0.000780	0.00278	1	10/22/2018 16:36	WG1184455
Toluene	U		0.00139	0.00557	1	10/22/2018 16:36	WG1184455
1,2,3-Trichlorobenzene	U		0.000696	0.00278	1	10/23/2018 16:21	WG1185221
1,2,4-Trichlorobenzene	U		0.00537	0.0139	1	10/22/2018 16:36	WG1184455
1,1,1-Trichloroethane	U		0.000306	0.00278	1	10/22/2018 16:36	WG1184455
1,1,2-Trichloroethane	U		0.000983	0.00278	1	10/22/2018 16:36	WG1184455
Trichloroethene	0.00390		0.000445	0.0011	1	10/22/2018 16:36	WG1184455
Trichlorofluoromethane	U		0.000557	0.00278	1	10/22/2018 16:36	WG1184455
1,2,3-Trichloropropane	U		0.00568	0.0139	1	10/22/2018 16:36	WG1184455
1,2,4-Trimethylbenzene	U		0.00129	0.00557	1	10/22/2018 16:36	WG1184455
1,2,3-Trimethylbenzene	U		0.00128	0.00557	1	10/22/2018 16:36	WG1184455
1,3,5-Trimethylbenzene	U		0.00120	0.00557	1	10/22/2018 16:36	WG1184455
Vinyl acetate	U		0.00392	0.0139	1	10/22/2018 16:36	WG1184455
Vinyl chloride	U		0.000761	0.00278	1	10/22/2018 16:36	WG1184455
Xylenes, Total	U		0.00532	0.00724	1	10/22/2018 16:36	WG1184455
(S) Toluene-d8	107			75.0-131		10/22/2018 16:36	WG1184455
(S) Toluene-d8	99.1			75.0-131		10/23/2018 16:21	WG1185221
(S) Dibromofluoromethane	89.0			65.0-129		10/22/2018 16:36	WG1184455
(S) Dibromofluoromethane	114			65.0-129		10/23/2018 16:21	WG1185221
(S) 4-Bromofluorobenzene	93.5			67.0-138		10/22/2018 16:36	WG1184455
(S) 4-Bromofluorobenzene	122			67.0-138		10/23/2018 16:21	WG1185221

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

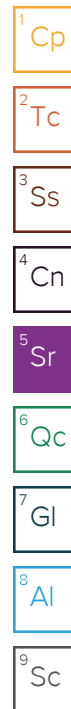


Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.1		1	10/24/2018 09:40	WG1184862

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0150	0.0274	1	10/23/2018 16:41	WG1185221
Acrylonitrile	U		0.00209	0.0137	1	10/22/2018 16:54	WG1184455
Benzene	U		0.000439	0.00110	1	10/22/2018 16:54	WG1184455
Bromobenzene	U		0.00115	0.0137	1	10/22/2018 16:54	WG1184455
Bromodichloromethane	U		0.000865	0.00274	1	10/22/2018 16:54	WG1184455
Bromochloromethane	U		0.00124	0.00549	1	10/22/2018 16:54	WG1184455
Bromoform	U		0.00656	0.0274	1	10/22/2018 16:54	WG1184455
Bromomethane	U		0.00406	0.0137	1	10/22/2018 16:54	WG1184455
n-Butylbenzene	U		0.00421	0.0137	1	10/22/2018 16:54	WG1184455
sec-Butylbenzene	U		0.00278	0.0137	1	10/22/2018 16:54	WG1184455
tert-Butylbenzene	U		0.00170	0.00549	1	10/22/2018 16:54	WG1184455
Carbon disulfide	U		0.00446	0.0137	1	10/22/2018 16:54	WG1184455
Carbon tetrachloride	U		0.00119	0.00549	1	10/22/2018 16:54	WG1184455
Chlorobenzene	U		0.000629	0.00274	1	10/22/2018 16:54	WG1184455
Chlorodibromomethane	U		0.000494	0.00274	1	10/22/2018 16:54	WG1184455
Chloroethane	U		0.00119	0.00549	1	10/22/2018 16:54	WG1184455
Chloroform	U		0.000455	0.00274	1	10/22/2018 16:54	WG1184455
Chloromethane	U		0.00153	0.0137	1	10/22/2018 16:54	WG1184455
2-Chlorotoluene	U		0.00101	0.00274	1	10/22/2018 16:54	WG1184455
4-Chlorotoluene	U		0.00124	0.00549	1	10/22/2018 16:54	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00560	0.0274	1	10/22/2018 16:54	WG1184455
1,2-Dibromoethane	U		0.000576	0.00274	1	10/22/2018 16:54	WG1184455
Dibromomethane	U		0.00110	0.00549	1	10/22/2018 16:54	WG1184455
1,2-Dichlorobenzene	U		0.00159	0.00549	1	10/22/2018 16:54	WG1184455
1,3-Dichlorobenzene	U		0.00187	0.00549	1	10/22/2018 16:54	WG1184455
1,4-Dichlorobenzene	U		0.00216	0.00549	1	10/22/2018 16:54	WG1184455
Dichlorodifluoromethane	U		0.000898	0.00274	1	10/23/2018 16:41	WG1185221
1,1-Dichloroethane	U		0.000631	0.00274	1	10/22/2018 16:54	WG1184455
1,2-Dichloroethane	U		0.000521	0.00274	1	10/22/2018 16:54	WG1184455
1,1-Dichloroethene	U		0.000549	0.00274	1	10/22/2018 16:54	WG1184455
cis-1,2-Dichloroethene	0.00332		0.000757	0.00274	1	10/23/2018 16:41	WG1185221
trans-1,2-Dichloroethene	U		0.00157	0.00549	1	10/22/2018 16:54	WG1184455
1,2-Dichloropropane	U		0.00139	0.00549	1	10/22/2018 16:54	WG1184455
1,1-Dichloropropene	U		0.000768	0.00274	1	10/22/2018 16:54	WG1184455
1,3-Dichloropropane	U		0.00192	0.00549	1	10/22/2018 16:54	WG1184455
cis-1,3-Dichloropropene	U		0.000744	0.00274	1	10/22/2018 16:54	WG1184455
trans-1,3-Dichloropropene	U	J4	0.00168	0.00549	1	10/22/2018 16:54	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00154	0.00549	1	10/22/2018 16:54	WG1184455
2,2-Dichloropropane	U		0.000870	0.00274	1	10/22/2018 16:54	WG1184455
Di-isopropyl ether	U		0.000384	0.00110	1	10/22/2018 16:54	WG1184455
Ethylbenzene	U		0.000582	0.00274	1	10/22/2018 16:54	WG1184455
Hexachloro-1,3-butadiene	U		0.0139	0.0274	1	10/22/2018 16:54	WG1184455
2-Hexanone	U		0.0110	0.0274	1	10/22/2018 16:54	WG1184455
n-Hexane	U		0.00116	0.00549	1	10/23/2018 16:41	WG1185221
Iodomethane	U		0.00664	0.0137	1	10/22/2018 16:54	WG1184455
Isopropylbenzene	U		0.000947	0.00274	1	10/22/2018 16:54	WG1184455
p-Isopropyltoluene	U		0.00256	0.00549	1	10/22/2018 16:54	WG1184455
2-Butanone (MEK)	0.0236	J	0.0137	0.0274	1	10/22/2018 16:54	WG1184455
Methylene Chloride	U		0.00729	0.0274	1	10/22/2018 16:54	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0274	1	10/22/2018 16:54	WG1184455





Collected date/time: 10/17/18 14:00

L1036155

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000324	0.00110	1	10/22/2018 16:54	WG1184455
Naphthalene	U		0.00342	0.0137	1	10/22/2018 16:54	WG1184455
n-Propylbenzene	U		0.00130	0.00549	1	10/22/2018 16:54	WG1184455
Styrene	U		0.00300	0.0137	1	10/22/2018 16:54	WG1184455
1,1,1,2-Tetrachloroethane	U	J4	0.000549	0.00274	1	10/22/2018 16:54	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000428	0.00274	1	10/23/2018 16:41	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000741	0.00274	1	10/22/2018 16:54	WG1184455
Tetrachloroethene	1.81		0.000768	0.00274	1	10/22/2018 16:54	WG1184455
Toluene	U		0.00137	0.00549	1	10/22/2018 16:54	WG1184455
1,2,3-Trichlorobenzene	U		0.000686	0.00274	1	10/23/2018 16:41	WG1185221
1,2,4-Trichlorobenzene	U		0.00529	0.0137	1	10/22/2018 16:54	WG1184455
1,1,1-Trichloroethane	U		0.000302	0.00274	1	10/22/2018 16:54	WG1184455
1,1,2-Trichloroethane	U		0.000969	0.00274	1	10/22/2018 16:54	WG1184455
Trichloroethene	0.0301		0.000439	0.00110	1	10/22/2018 16:54	WG1184455
Trichlorofluoromethane	U		0.000549	0.00274	1	10/22/2018 16:54	WG1184455
1,2,3-Trichloropropane	U		0.00560	0.0137	1	10/22/2018 16:54	WG1184455
1,2,4-Trimethylbenzene	U		0.00127	0.00549	1	10/22/2018 16:54	WG1184455
1,2,3-Trimethylbenzene	U		0.00126	0.00549	1	10/22/2018 16:54	WG1184455
1,3,5-Trimethylbenzene	U		0.00119	0.00549	1	10/22/2018 16:54	WG1184455
Vinyl acetate	U		0.00386	0.0137	1	10/22/2018 16:54	WG1184455
Vinyl chloride	U		0.000750	0.00274	1	10/22/2018 16:54	WG1184455
Xylenes, Total	U		0.00525	0.00713	1	10/22/2018 16:54	WG1184455
(S) Toluene-d8	106			75.0-131		10/22/2018 16:54	WG1184455
(S) Toluene-d8	97.8			75.0-131		10/23/2018 16:41	WG1185221
(S) Dibromofluoromethane	90.1			65.0-129		10/22/2018 16:54	WG1184455
(S) Dibromofluoromethane	113			65.0-129		10/23/2018 16:41	WG1185221
(S) 4-Bromofluorobenzene	94.3			67.0-138		10/22/2018 16:54	WG1184455
(S) 4-Bromofluorobenzene	120			67.0-138		10/23/2018 16:41	WG1185221

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	84.9		1	10/24/2018 09:40	WG1184862

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.161	0.294	10	10/24/2018 00:06	WG1185221
Acrylonitrile	U		0.00224	0.0147	1	10/22/2018 17:13	WG1184455
Benzene	U		0.000471	0.00118	1	10/22/2018 17:13	WG1184455
Bromobenzene	U		0.00124	0.0147	1	10/22/2018 17:13	WG1184455
Bromodichloromethane	U		0.000928	0.00294	1	10/22/2018 17:13	WG1184455
Bromochloromethane	U		0.00133	0.00589	1	10/22/2018 17:13	WG1184455
Bromoform	U		0.00704	0.0294	1	10/22/2018 17:13	WG1184455
Bromomethane	U		0.00436	0.0147	1	10/22/2018 17:13	WG1184455
n-Butylbenzene	U		0.00452	0.0147	1	10/22/2018 17:13	WG1184455
sec-Butylbenzene	U		0.00298	0.0147	1	10/22/2018 17:13	WG1184455
tert-Butylbenzene	U		0.00182	0.00589	1	10/22/2018 17:13	WG1184455
Carbon disulfide	U		0.00478	0.0147	1	10/22/2018 17:13	WG1184455
Carbon tetrachloride	U		0.00127	0.00589	1	10/22/2018 17:13	WG1184455
Chlorobenzene	U		0.000675	0.00294	1	10/22/2018 17:13	WG1184455
Chlorodibromomethane	U		0.000530	0.00294	1	10/22/2018 17:13	WG1184455
Chloroethane	U		0.00127	0.00589	1	10/22/2018 17:13	WG1184455
Chloroform	0.00116	B J	0.000489	0.00294	1	10/22/2018 17:13	WG1184455
Chloromethane	U		0.00164	0.0147	1	10/22/2018 17:13	WG1184455
2-Chlorotoluene	U		0.00108	0.00294	1	10/22/2018 17:13	WG1184455
4-Chlorotoluene	U		0.00133	0.00589	1	10/22/2018 17:13	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00600	0.0294	1	10/22/2018 17:13	WG1184455
1,2-Dibromoethane	U		0.000618	0.00294	1	10/22/2018 17:13	WG1184455
Dibromomethane	U		0.00118	0.00589	1	10/22/2018 17:13	WG1184455
1,2-Dichlorobenzene	U		0.00171	0.00589	1	10/22/2018 17:13	WG1184455
1,3-Dichlorobenzene	U		0.00200	0.00589	1	10/22/2018 17:13	WG1184455
1,4-Dichlorobenzene	U		0.00232	0.00589	1	10/22/2018 17:13	WG1184455
Dichlorodifluoromethane	U		0.00963	0.0294	10	10/24/2018 00:06	WG1185221
1,1-Dichloroethane	U		0.000677	0.00294	1	10/22/2018 17:13	WG1184455
1,2-Dichloroethane	U		0.000559	0.00294	1	10/22/2018 17:13	WG1184455
1,1-Dichloroethene	U		0.000589	0.00294	1	10/22/2018 17:13	WG1184455
cis-1,2-Dichloroethene	0.0429		0.00812	0.0294	10	10/24/2018 00:06	WG1185221
trans-1,2-Dichloroethene	U		0.00168	0.00589	1	10/22/2018 17:13	WG1184455
1,2-Dichloropropane	U		0.00150	0.00589	1	10/22/2018 17:13	WG1184455
1,1-Dichloropropene	U		0.000824	0.00294	1	10/22/2018 17:13	WG1184455
1,3-Dichloropropane	U		0.00206	0.00589	1	10/22/2018 17:13	WG1184455
cis-1,3-Dichloropropene	U		0.000798	0.00294	1	10/22/2018 17:13	WG1184455
trans-1,3-Dichloropropene	U	J4	0.00180	0.00589	1	10/22/2018 17:13	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00165	0.00589	1	10/22/2018 17:13	WG1184455
2,2-Dichloropropane	U		0.000934	0.00294	1	10/22/2018 17:13	WG1184455
Di-isopropyl ether	U		0.000412	0.00118	1	10/22/2018 17:13	WG1184455
Ethylbenzene	U		0.000624	0.00294	1	10/22/2018 17:13	WG1184455
Hexachloro-1,3-butadiene	U		0.0150	0.0294	1	10/22/2018 17:13	WG1184455
2-Hexanone	U		0.0118	0.0294	1	10/22/2018 17:13	WG1184455
n-Hexane	U		0.00125	0.00589	1	10/22/2018 17:13	WG1184455
Iodomethane	U		0.00712	0.0147	1	10/22/2018 17:13	WG1184455
Isopropylbenzene	U		0.00102	0.00294	1	10/22/2018 17:13	WG1184455
p-Isopropyltoluene	U		0.00274	0.00589	1	10/22/2018 17:13	WG1184455
2-Butanone (MEK)	U		0.0147	0.0294	1	10/22/2018 17:13	WG1184455
Methylene Chloride	U		0.00782	0.0294	1	10/22/2018 17:13	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0294	1	10/22/2018 17:13	WG1184455

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		0.000347	0.00118	1	10/22/2018 17:13	WG1184455
Naphthalene	U		0.00367	0.0147	1	10/22/2018 17:13	WG1184455
n-Propylbenzene	U		0.00139	0.00589	1	10/22/2018 17:13	WG1184455
Styrene	U		0.00321	0.0147	1	10/22/2018 17:13	WG1184455
1,1,1,2-Tetrachloroethane	U	<u>J4</u>	0.000589	0.00294	1	10/22/2018 17:13	WG1184455
1,1,2,2-Tetrachloroethane	U		0.00459	0.0294	10	10/24/2018 00:06	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000795	0.00294	1	10/22/2018 17:13	WG1184455
Tetrachloroethene	2.05	<u>JO</u>	0.00824	0.0294	10	10/24/2018 00:06	WG1185221
Toluene	U		0.00147	0.00589	1	10/22/2018 17:13	WG1184455
1,2,3-Trichlorobenzene	U		0.00736	0.0294	10	10/24/2018 00:06	WG1185221
1,2,4-Trichlorobenzene	U		0.00567	0.0147	1	10/22/2018 17:13	WG1184455
1,1,1-Trichloroethane	U		0.000324	0.00294	1	10/22/2018 17:13	WG1184455
1,1,2-Trichloroethane	U		0.00104	0.00294	1	10/22/2018 17:13	WG1184455
Trichloroethene	0.0634		0.000471	0.00118	1	10/22/2018 17:13	WG1184455
Trichlorofluoromethane	U		0.000589	0.00294	1	10/22/2018 17:13	WG1184455
1,2,3-Trichloropropane	U		0.00600	0.0147	1	10/22/2018 17:13	WG1184455
1,2,4-Trimethylbenzene	U		0.00137	0.00589	1	10/22/2018 17:13	WG1184455
1,2,3-Trimethylbenzene	U		0.00135	0.00589	1	10/22/2018 17:13	WG1184455
1,3,5-Trimethylbenzene	U		0.00127	0.00589	1	10/22/2018 17:13	WG1184455
Vinyl acetate	U		0.00414	0.0147	1	10/22/2018 17:13	WG1184455
Vinyl chloride	U		0.000804	0.00294	1	10/22/2018 17:13	WG1184455
Xylenes, Total	U		0.00563	0.00765	1	10/22/2018 17:13	WG1184455
(S) Toluene-d8	108			75.0-131		10/22/2018 17:13	WG1184455
(S) Toluene-d8	98.1			75.0-131		10/24/2018 00:06	WG1185221
(S) Dibromofluoromethane	89.0			65.0-129		10/22/2018 17:13	WG1184455
(S) Dibromofluoromethane	116			65.0-129		10/24/2018 00:06	WG1185221
(S) 4-Bromofluorobenzene	94.3			67.0-138		10/22/2018 17:13	WG1184455
(S) 4-Bromofluorobenzene	123			67.0-138		10/24/2018 00:06	WG1185221

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

Sample Narrative:

L1036155-30 WG1185221, WG1184455: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036155-30 WG1185221, WG1184455: Not all compounds reportable at lower dilution.



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	10/19/2018 11:37	WG1183421
Acrylonitrile	U		0.873	5.00	1	10/19/2018 11:37	WG1183421
Benzene	U		0.0896	0.500	1	10/19/2018 11:37	WG1183421
Bromobenzene	U		0.133	0.500	1	10/19/2018 11:37	WG1183421
Bromodichloromethane	U		0.0800	0.500	1	10/19/2018 11:37	WG1183421
Bromochloromethane	U		0.145	0.500	1	10/19/2018 11:37	WG1183421
Bromoform	U		0.186	0.500	1	10/19/2018 11:37	WG1183421
Bromomethane	U		0.157	2.50	1	10/19/2018 11:37	WG1183421
n-Butylbenzene	U		0.143	0.500	1	10/19/2018 11:37	WG1183421
sec-Butylbenzene	U		0.134	0.500	1	10/19/2018 11:37	WG1183421
tert-Butylbenzene	U		0.183	0.500	1	10/19/2018 11:37	WG1183421
Carbon disulfide	U		0.101	0.500	1	10/19/2018 11:37	WG1183421
Carbon tetrachloride	U		0.159	0.500	1	10/19/2018 11:37	WG1183421
Chlorobenzene	U		0.140	0.500	1	10/19/2018 11:37	WG1183421
Chlorodibromomethane	U		0.128	0.500	1	10/19/2018 11:37	WG1183421
Chloroethane	U		0.141	2.50	1	10/19/2018 11:37	WG1183421
Chloroform	U		0.0860	0.500	1	10/19/2018 11:37	WG1183421
Chloromethane	U		0.153	1.25	1	10/19/2018 11:37	WG1183421
2-Chlorotoluene	U		0.111	0.500	1	10/19/2018 11:37	WG1183421
4-Chlorotoluene	U		0.0972	0.500	1	10/19/2018 11:37	WG1183421
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/19/2018 11:37	WG1183421
1,2-Dibromoethane	U		0.193	0.500	1	10/19/2018 11:37	WG1183421
Dibromomethane	U		0.117	0.500	1	10/19/2018 11:37	WG1183421
1,2-Dichlorobenzene	U		0.101	0.500	1	10/19/2018 11:37	WG1183421
1,3-Dichlorobenzene	U		0.130	0.500	1	10/19/2018 11:37	WG1183421
1,4-Dichlorobenzene	U		0.121	0.500	1	10/19/2018 11:37	WG1183421
Dichlorodifluoromethane	U		0.127	2.50	1	10/19/2018 11:37	WG1183421
1,1-Dichloroethane	U		0.114	0.500	1	10/19/2018 11:37	WG1183421
1,2-Dichloroethane	U		0.108	0.500	1	10/19/2018 11:37	WG1183421
1,1-Dichloroethene	U		0.188	0.500	1	10/19/2018 11:37	WG1183421
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/19/2018 11:37	WG1183421
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/19/2018 11:37	WG1183421
1,2-Dichloropropane	U		0.190	0.500	1	10/19/2018 11:37	WG1183421
1,1-Dichloropropene	U		0.128	0.500	1	10/19/2018 11:37	WG1183421
1,3-Dichloropropane	U		0.147	1.00	1	10/19/2018 11:37	WG1183421
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/19/2018 11:37	WG1183421
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/19/2018 11:37	WG1183421
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/19/2018 11:37	WG1183421
2,2-Dichloropropane	U	J4	0.0929	0.500	1	10/19/2018 11:37	WG1183421
Di-isopropyl ether	U		0.0924	0.500	1	10/19/2018 11:37	WG1183421
Ethylbenzene	U		0.158	0.500	1	10/19/2018 11:37	WG1183421
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/19/2018 11:37	WG1183421
2-Hexanone	U		0.757	5.00	1	10/19/2018 11:37	WG1183421
n-Hexane	U		0.305	5.00	1	10/19/2018 11:37	WG1183421
Iodomethane	U		0.377	10.0	1	10/19/2018 11:37	WG1183421
Isopropylbenzene	U		0.126	0.500	1	10/19/2018 11:37	WG1183421
p-Isopropyltoluene	U		0.138	0.500	1	10/19/2018 11:37	WG1183421
2-Butanone (MEK)	U		1.28	5.00	1	10/19/2018 11:37	WG1183421
Methylene Chloride	U		1.07	2.50	1	10/19/2018 11:37	WG1183421
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/19/2018 11:37	WG1183421
Methyl tert-butyl ether	U		0.102	0.500	1	10/19/2018 11:37	WG1183421
Naphthalene	U		0.174	2.50	1	10/19/2018 11:37	WG1183421
n-Propylbenzene	U		0.162	0.500	1	10/19/2018 11:37	WG1183421
Styrene	U		0.117	0.500	1	10/19/2018 11:37	WG1183421
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/19/2018 11:37	WG1183421
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/19/2018 11:37	WG1183421

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/17/18 00:00

L1036155

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	10/19/2018 11:37	WG1183421
Tetrachloroethene	U		0.199	0.500	1	10/19/2018 11:37	WG1183421
Toluene	U		0.412	0.500	1	10/19/2018 11:37	WG1183421
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/19/2018 11:37	WG1183421
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/19/2018 11:37	WG1183421
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/19/2018 11:37	WG1183421
1,1,2-Trichloroethane	U		0.186	0.500	1	10/19/2018 11:37	WG1183421
Trichloroethene	U		0.153	0.500	1	10/19/2018 11:37	WG1183421
Trichlorofluoromethane	U		0.130	2.50	1	10/19/2018 11:37	WG1183421
1,2,3-Trichloropropane	U		0.247	2.50	1	10/19/2018 11:37	WG1183421
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/19/2018 11:37	WG1183421
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/19/2018 11:37	WG1183421
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/19/2018 11:37	WG1183421
Vinyl acetate	U		0.645	5.00	1	10/19/2018 11:37	WG1183421
Vinyl chloride	U		0.118	0.500	1	10/19/2018 11:37	WG1183421
Xylenes, Total	U		0.316	1.50	1	10/19/2018 11:37	WG1183421
(S) Toluene-d8	99.4			80.0-120		10/19/2018 11:37	WG1183421
(S) Dibromofluoromethane	103			75.0-120		10/19/2018 11:37	WG1183421
(S) 4-Bromofluorobenzene	99.1			77.0-126		10/19/2018 11:37	WG1183421

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc



Total Solids by Method 2540 G-2011

L1036155-01

Method Blank (MB)

(MB) R3353695-1 10/24/18 12:36

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

Cp

 ${}^2\text{Tc}$

Ss

$$C_n$$
 ^{87}Sr

Qc

L1036154-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1036154-03 10/24/18 12:36 • (DUP) R3353695-3 10/24/18 12:36

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	89.4	89.0	1	0.501		10

GI

 ${}^3\text{Al}$

Sc

Laboratory Control Sample (LCS)

(LCS) R3353695-2 10/24/18 12:36

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3353692-1 10/24/18 10:10

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

L1036155-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1036155-10 10/24/18 10:10 • (DUP) R3353692-3 10/24/18 10:10

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	88.8	92.0	1	3.53		10

Laboratory Control Sample (LCS)

(LCS) R3353692-2 10/24/18 10:10

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3353690-1 10/24/18 10:00

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1036155-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1036155-12 10/24/18 10:00 • (DUP) R3353690-3 10/24/18 10:00

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	87.3	91.3	1	4.51		10

Laboratory Control Sample (LCS)

(LCS) R3353690-2 10/24/18 10:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3353689-1 10/24/18 09:40

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1036155-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1036155-24 10/24/18 09:40 • (DUP) R3353689-3 10/24/18 09:40

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	91.0	91.1	1	0.155		10

Laboratory Control Sample (LCS)

(LCS) R3353689-2 10/24/18 09:40

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



Method Blank (MB)

(MB) R3352238-4 10/19/18 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

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3352238-4 10/19/18 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	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	99.0			80.0-120
(S) Dibromofluoromethane	101			75.0-120
(S) 4-Bromofluorobenzene	97.4			77.0-126

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) R3352238-1 10/19/18 09:37 • (LCSD) R3352238-2 10/19/18 09:56

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	125	106	102	84.5	81.6	19.0-160			3.46	27
Acrylonitrile	125	126	127	101	101	55.0-149			0.565	20
Benzene	25.0	25.6	25.6	102	102	70.0-123			0.0546	20
Bromobenzene	25.0	23.9	25.0	95.7	100	73.0-121			4.36	20
Bromodichloromethane	25.0	25.7	26.1	103	105	75.0-120			1.51	20
Bromochloromethane	25.0	27.1	26.1	108	104	76.0-122			3.86	20
Bromoform	25.0	25.0	26.0	99.8	104	68.0-132			4.13	20
Bromomethane	25.0	28.1	27.2	112	109	10.0-160			3.02	25
n-Butylbenzene	25.0	25.2	26.1	101	104	73.0-125			3.49	20
sec-Butylbenzene	25.0	24.1	25.6	96.3	102	75.0-125			6.20	20
tert-Butylbenzene	25.0	23.9	25.3	95.5	101	76.0-124			5.94	20
Carbon disulfide	25.0	24.5	24.2	97.8	97.0	61.0-128			0.863	20
Carbon tetrachloride	25.0	25.6	25.4	102	102	68.0-126			0.820	20
Chlorobenzene	25.0	24.4	24.7	97.5	98.9	80.0-121			1.35	20
Chlorodibromomethane	25.0	25.1	25.4	101	102	77.0-125			1.19	20
Chloroethane	25.0	24.2	24.7	96.9	98.6	47.0-150			1.79	20
Chloroform	25.0	25.7	25.9	103	103	73.0-120			0.726	20
Chloromethane	25.0	25.8	25.8	103	103	41.0-142			0.166	20
2-Chlorotoluene	25.0	23.7	25.4	94.6	102	76.0-123			7.18	20
4-Chlorotoluene	25.0	24.5	25.7	98.0	103	75.0-122			4.61	20
1,2-Dibromo-3-Chloropropane	25.0	23.7	24.3	94.9	97.2	58.0-134			2.40	20
1,2-Dibromoethane	25.0	22.7	23.3	90.8	93.3	80.0-122			2.71	20
Dibromomethane	25.0	27.6	27.7	110	111	80.0-120			0.523	20
1,2-Dichlorobenzene	25.0	24.7	26.1	98.8	104	79.0-121			5.50	20
1,3-Dichlorobenzene	25.0	25.7	26.7	103	107	79.0-120			3.97	20
1,4-Dichlorobenzene	25.0	23.4	25.1	93.6	100	79.0-120			7.09	20
Dichlorodifluoromethane	25.0	30.7	28.1	123	112	51.0-149			9.10	20
1,1-Dichloroethane	25.0	26.8	26.5	107	106	70.0-126			1.04	20
1,2-Dichloroethane	25.0	26.4	26.4	106	106	70.0-128			0.0383	20
1,1-Dichloroethene	25.0	25.3	24.6	101	98.3	71.0-124			2.78	20
cis-1,2-Dichloroethene	25.0	25.0	25.0	100	100	73.0-120			0.0400	20
trans-1,2-Dichloroethene	25.0	25.7	25.8	103	103	73.0-120			0.208	20
1,2-Dichloropropane	25.0	27.3	26.4	109	105	77.0-125			3.48	20
1,1-Dichloropropene	25.0	26.9	27.2	108	109	74.0-126			0.954	20
1,3-Dichloropropane	25.0	24.6	25.8	98.3	103	80.0-120			4.79	20
cis-1,3-Dichloropropene	25.0	25.9	26.3	104	105	80.0-123			1.65	20
trans-1,3-Dichloropropene	25.0	25.1	26.2	101	105	78.0-124			4.02	20
trans-1,4-Dichloro-2-butene	25.0	22.9	23.4	91.4	93.6	33.0-144			2.35	20
2,2-Dichloropropane	25.0	34.1	35.8	137	143	58.0-130	J4	J4	4.61	20
Di-isopropyl ether	25.0	25.7	25.1	103	101	58.0-138			2.20	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3352238-1 10/19/18 09:37 • (LCSD) R3352238-2 10/19/18 09:56

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Ethylbenzene	25.0	24.2	24.7	96.9	98.9	79.0-123			1.99	20
Hexachloro-1,3-butadiene	25.0	23.5	25.1	94.0	100	54.0-138			6.60	20
2-Hexanone	125	124	126	98.8	101	67.0-149			1.97	20
n-Hexane	25.0	28.3	27.9	113	111	57.0-133			1.55	20
Iodomethane	125	137	136	110	109	33.0-147			0.754	26
Isopropylbenzene	25.0	23.6	25.5	94.3	102	76.0-127			7.99	20
p-Isopropyltoluene	25.0	23.8	25.6	95.3	103	76.0-125			7.33	20
2-Butanone (MEK)	125	125	125	100	100	44.0-160			0.324	20
Methylene Chloride	25.0	25.8	24.9	103	99.6	67.0-120			3.42	20
4-Methyl-2-pentanone (MIBK)	125	125	124	99.8	99.5	68.0-142			0.371	20
Methyl tert-butyl ether	25.0	24.1	24.6	96.4	98.4	68.0-125			2.09	20
Naphthalene	25.0	23.2	24.8	92.7	99.4	54.0-135			6.91	20
n-Propylbenzene	25.0	24.0	25.0	95.9	99.9	77.0-124			4.16	20
Styrene	25.0	23.9	24.3	95.8	97.2	73.0-130			1.50	20
1,1,1,2-Tetrachloroethane	25.0	25.4	25.3	102	101	75.0-125			0.551	20
1,1,2,2-Tetrachloroethane	25.0	24.5	25.9	98.0	104	65.0-130			5.51	20
1,1,2-Trichlorotrifluoroethane	25.0	20.3	20.7	81.3	82.7	69.0-132			1.69	20
Tetrachloroethene	25.0	25.1	26.0	100	104	72.0-132			3.76	20
Toluene	25.0	24.4	25.2	97.5	101	79.0-120			3.47	20
1,2,3-Trichlorobenzene	25.0	23.2	24.1	92.7	96.4	50.0-138			3.95	20
1,2,4-Trichlorobenzene	25.0	25.3	26.5	101	106	57.0-137			4.90	20
1,1,1-Trichloroethane	25.0	26.3	25.9	105	104	73.0-124			1.52	20
1,1,2-Trichloroethane	25.0	23.9	23.6	95.7	94.6	80.0-120			1.11	20
Trichloroethene	25.0	23.8	24.1	95.2	96.3	78.0-124			1.09	20
Trichlorofluoromethane	25.0	24.9	23.3	99.4	93.1	59.0-147			6.61	20
1,2,3-Trichloropropane	25.0	23.1	25.2	92.5	101	73.0-130			8.50	20
1,2,4-Trimethylbenzene	25.0	23.8	25.1	95.2	100	76.0-121			5.22	20
1,2,3-Trimethylbenzene	25.0	23.6	24.8	94.5	99.2	77.0-120			4.86	20
1,3,5-Trimethylbenzene	25.0	23.9	25.3	95.5	101	76.0-122			5.78	20
Vinyl acetate	125	163	162	130	130	11.0-160			0.0925	20
Vinyl chloride	25.0	27.4	27.3	110	109	67.0-131			0.583	20
Xylenes, Total	75.0	74.6	76.7	99.5	102	79.0-123			2.78	20
(S) Toluene-d8				96.3	98.1	80.0-120				
(S) Dibromofluoromethane				103	100	75.0-120				
(S) 4-Bromofluorobenzene				96.0	98.4	77.0-126				

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Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

8

Al

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Sc

Method Blank (MB)

(MB) R3352821-2 10/19/18 13:07

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

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Qc

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Gl

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Al

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Sc

[L1036155-01,02,03,04,05](#)

Method Blank (MB)

(MB) R3352821-2 10/19/18 13:07

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
n-Hexane	U		0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	0.0212	U	0.0125	0.0250
Methylene Chloride	0.0147	U	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	102			75.0-131
(S) Dibromofluoromethane	95.0			65.0-129
(S) 4-Bromofluorobenzene	89.8			67.0-138

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R3352821-1 10/19/18 12:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acrylonitrile	0.625	0.730	117	45.0-153	
Benzene	0.125	0.137	109	70.0-123	
Bromobenzene	0.125	0.108	86.7	73.0-121	
Bromodichloromethane	0.125	0.117	93.3	73.0-121	

Laboratory Control Sample (LCS)

(LCS) R3352821-1 10/19/18 12:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromochloromethane	0.125	0.0971	77.7	77.0-128	
Bromoform	0.125	0.103	82.1	64.0-132	
Bromomethane	0.125	0.149	119	56.0-147	
n-Butylbenzene	0.125	0.0993	79.5	68.0-135	
sec-Butylbenzene	0.125	0.102	82.0	74.0-130	
tert-Butylbenzene	0.125	0.107	85.9	75.0-127	
Carbon disulfide	0.125	0.102	81.8	56.0-133	
Carbon tetrachloride	0.125	0.101	80.8	66.0-128	
Chlorobenzene	0.125	0.103	82.6	76.0-128	
Chlorodibromomethane	0.125	0.123	98.8	74.0-127	
Chloroethane	0.125	0.124	99.1	61.0-134	
Chloroform	0.125	0.110	87.7	72.0-123	
Chloromethane	0.125	0.163	130	51.0-138	
2-Chlorotoluene	0.125	0.115	91.8	75.0-124	
4-Chlorotoluene	0.125	0.108	86.2	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.124	99.1	59.0-130	
1,2-Dibromoethane	0.125	0.111	88.9	74.0-128	
Dibromomethane	0.125	0.116	92.6	75.0-122	
1,2-Dichlorobenzene	0.125	0.123	98.7	76.0-124	
1,3-Dichlorobenzene	0.125	0.105	83.8	76.0-125	
1,4-Dichlorobenzene	0.125	0.105	84.2	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.161	129	45.0-143	
1,1-Dichloroethane	0.125	0.128	102	70.0-127	
1,2-Dichloroethane	0.125	0.122	97.3	65.0-131	
1,1-Dichloroethene	0.125	0.119	94.9	65.0-131	
cis-1,2-Dichloroethene	0.125	0.154	123	73.0-125	
trans-1,2-Dichloroethene	0.125	0.111	88.4	71.0-125	
1,2-Dichloropropane	0.125	0.117	93.7	74.0-125	
1,1-Dichloropropene	0.125	0.136	109	73.0-125	
1,3-Dichloropropane	0.125	0.102	81.6	80.0-125	
cis-1,3-Dichloropropene	0.125	0.128	102	76.0-127	
trans-1,3-Dichloropropene	0.125	0.177	142	73.0-127	J4
2,2-Dichloropropane	0.125	0.118	94.1	59.0-135	
Di-isopropyl ether	0.125	0.121	96.8	60.0-136	
Ethylbenzene	0.125	0.106	85.1	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.182	145	57.0-150	
2-Hexanone	0.625	0.702	112	54.0-147	
n-Hexane	0.125	0.174	139	55.0-137	J4
Iodomethane	0.625	0.655	105	74.0-134	
Isopropylbenzene	0.125	0.110	88.3	72.0-127	

1

Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

9

Sc

Laboratory Control Sample (LCS)

(LCS) R3352821-1 10/19/18 12:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
p-Isopropyltoluene	0.125	0.0983	78.6	72.0-133	
2-Butanone (MEK)	0.625	1.01	161	30.0-160	J4
Methylene Chloride	0.125	0.0978	78.2	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.747	120	56.0-143	
Methyl tert-butyl ether	0.125	0.110	88.4	66.0-132	
Naphthalene	0.125	0.120	96.1	59.0-130	
n-Propylbenzene	0.125	0.126	101	74.0-126	
Styrene	0.125	0.112	89.8	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.150	120	74.0-129	
Tetrachloroethene	0.125	0.135	108	70.0-136	
Toluene	0.125	0.115	92.0	75.0-121	
1,2,4-Trichlorobenzene	0.125	0.135	108	62.0-137	
1,1,1-Trichloroethane	0.125	0.132	106	69.0-126	
1,1,2-Trichloroethane	0.125	0.118	94.1	78.0-123	
Trichloroethene	0.125	0.124	99.0	76.0-126	
Trichlorofluoromethane	0.125	0.129	103	61.0-142	
1,2,3-Trichloropropane	0.125	0.118	94.1	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.125	99.9	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.108	86.5	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.118	94.6	73.0-127	
Vinyl acetate	0.625	0.654	105	43.0-159	
Xylenes, Total	0.375	0.341	90.9	72.0-127	
(S) Toluene-d8			103	75.0-131	
(S) Dibromofluoromethane			94.6	65.0-129	
(S) 4-Bromofluorobenzene			91.2	67.0-138	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3353123-2 10/21/18 22:37

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	0.00172	U	0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3353123-2 10/21/18 22:37

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
n-Hexane	U		0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	0.000752	U	0.000625	0.00250
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	100			75.0-131
(S) Dibromofluoromethane	115			65.0-129
(S) 4-Bromofluorobenzene	120			67.0-138

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3353123-1 10/21/18 21:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.620	99.2	10.0-160	
Acrylonitrile	0.625	0.778	124	45.0-153	
Bromobenzene	0.125	0.135	108	73.0-121	
Bromodichloromethane	0.125	0.129	103	73.0-121	



Laboratory Control Sample (LCS)

(LCS) R3353123-1 10/21/18 21:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromochloromethane	0.125	0.141	113	77.0-128	
Bromoform	0.125	0.131	105	64.0-132	
Bromomethane	0.125	0.106	84.9	56.0-147	
n-Butylbenzene	0.125	0.119	95.1	68.0-135	
sec-Butylbenzene	0.125	0.132	106	74.0-130	
tert-Butylbenzene	0.125	0.137	110	75.0-127	
Carbon disulfide	0.125	0.147	118	56.0-133	
Carbon tetrachloride	0.125	0.148	119	66.0-128	
Chlorobenzene	0.125	0.115	91.8	76.0-128	
Chlorodibromomethane	0.125	0.120	96.2	74.0-127	
Chloroethane	0.125	0.110	87.9	61.0-134	
Chloroform	0.125	0.149	119	72.0-123	
Chloromethane	0.125	0.145	116	51.0-138	
2-Chlorotoluene	0.125	0.138	110	75.0-124	
4-Chlorotoluene	0.125	0.140	112	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.128	103	59.0-130	
1,2-Dibromoethane	0.125	0.117	93.4	74.0-128	
Dibromomethane	0.125	0.129	104	75.0-122	
1,2-Dichlorobenzene	0.125	0.122	97.7	76.0-124	
1,3-Dichlorobenzene	0.125	0.121	96.6	76.0-125	
1,4-Dichlorobenzene	0.125	0.117	93.2	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.166	133	45.0-143	
Dichlorodifluoromethane	0.125	0.151	121	43.0-156	
1,1-Dichloroethane	0.125	0.157	125	70.0-127	
1,2-Dichloroethane	0.125	0.160	128	65.0-131	
1,1-Dichloroethene	0.125	0.142	114	65.0-131	
cis-1,2-Dichloroethene	0.125	0.142	114	73.0-125	
trans-1,2-Dichloroethene	0.125	0.145	116	71.0-125	
1,2-Dichloropropane	0.125	0.125	100	74.0-125	
1,1-Dichloropropene	0.125	0.147	118	73.0-125	
1,3-Dichloropropane	0.125	0.120	96.2	80.0-125	
cis-1,3-Dichloropropene	0.125	0.120	95.9	76.0-127	
trans-1,3-Dichloropropene	0.125	0.128	103	73.0-127	
2,2-Dichloropropane	0.125	0.187	150	59.0-135	J4
Ethylbenzene	0.125	0.115	91.7	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.0895	71.6	57.0-150	
2-Hexanone	0.625	0.587	93.9	54.0-147	
n-Hexane	0.125	0.141	112	55.0-137	
Iodomethane	0.625	0.716	115	74.0-134	
Isopropylbenzene	0.125	0.139	111	72.0-127	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3353123-1 10/21/18 21:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
p-Isopropyltoluene	0.125	0.128	103	72.0-133	
2-Butanone (MEK)	0.625	0.749	120	30.0-160	
Methylene Chloride	0.125	0.141	113	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.626	100	56.0-143	
Naphthalene	0.125	0.130	104	59.0-130	
n-Propylbenzene	0.125	0.138	110	74.0-126	
Styrene	0.125	0.131	105	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.120	96.0	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.132	106	68.0-128	
Toluene	0.125	0.112	89.3	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.150	120	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.109	86.8	59.0-139	
1,1,1-Trichloroethane	0.125	0.155	124	69.0-126	
1,1,2-Trichloroethane	0.125	0.115	91.8	78.0-123	
Trichlorofluoromethane	0.125	0.119	95.5	61.0-142	
1,2,3-Trichloropropane	0.125	0.144	115	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.131	105	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.137	109	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.136	109	73.0-127	
Vinyl acetate	0.625	0.577	92.3	43.0-159	
Vinyl chloride	0.125	0.131	105	63.0-134	
Xylenes, Total	0.375	0.354	94.4	72.0-127	
(S) Toluene-d8			97.6	75.0-131	
(S) Dibromofluoromethane			120	65.0-129	
(S) 4-Bromofluorobenzene			123	67.0-138	

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Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Method Blank (MB)

(MB) R3353171-2 10/22/18 11:26

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	0.00131	U	0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250
n-Hexane	U		0.00106	0.00500

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Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Method Blank (MB)

(MB) R3353171-2 10/22/18 11:26

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	106			75.0-131
(S) Dibromofluoromethane	91.7			65.0-129
(S) 4-Bromofluorobenzene	95.5			67.0-138

1

Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Laboratory Control Sample (LCS)

(LCS) R3353171-1 10/22/18 10:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acrylonitrile	0.625	0.571	91.3	45.0-153	
Benzene	0.125	0.126	101	70.0-123	
Bromobenzene	0.125	0.111	88.8	73.0-121	



Laboratory Control Sample (LCS)

(LCS) R3353171-1 10/22/18 10:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromodichloromethane	0.125	0.124	99.5	73.0-121	
Bromochloromethane	0.125	0.101	80.9	77.0-128	
Bromoform	0.125	0.107	85.3	64.0-132	
Bromomethane	0.125	0.109	87.1	56.0-147	
n-Butylbenzene	0.125	0.0907	72.6	68.0-135	
sec-Butylbenzene	0.125	0.0972	77.8	74.0-130	
tert-Butylbenzene	0.125	0.107	85.4	75.0-127	
Carbon disulfide	0.125	0.101	81.1	56.0-133	
Carbon tetrachloride	0.125	0.112	89.6	66.0-128	
Chlorobenzene	0.125	0.107	85.3	76.0-128	
Chlorodibromomethane	0.125	0.135	108	74.0-127	
Chloroethane	0.125	0.101	80.6	61.0-134	
Chloroform	0.125	0.109	87.2	72.0-123	
Chloromethane	0.125	0.115	91.6	51.0-138	
2-Chlorotoluene	0.125	0.119	94.9	75.0-124	
4-Chlorotoluene	0.125	0.112	89.6	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.111	88.6	59.0-130	
1,2-Dibromoethane	0.125	0.116	92.4	74.0-128	
Dibromomethane	0.125	0.130	104	75.0-122	
1,2-Dichlorobenzene	0.125	0.127	102	76.0-124	
1,3-Dichlorobenzene	0.125	0.106	85.1	76.0-125	
1,4-Dichlorobenzene	0.125	0.112	89.9	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.139	111	45.0-143	
1,1-Dichloroethane	0.125	0.125	100	70.0-127	
1,2-Dichloroethane	0.125	0.127	101	65.0-131	
1,1-Dichloroethene	0.125	0.119	95.1	65.0-131	
trans-1,2-Dichloroethene	0.125	0.105	83.8	71.0-125	
1,2-Dichloropropane	0.125	0.114	91.1	74.0-125	
1,1-Dichloropropene	0.125	0.128	102	73.0-125	
1,3-Dichloropropane	0.125	0.106	84.7	80.0-125	
cis-1,3-Dichloropropene	0.125	0.129	104	76.0-127	
trans-1,3-Dichloropropene	0.125	0.186	149	73.0-127	J4
2,2-Dichloropropane	0.125	0.137	110	59.0-135	
Di-isopropyl ether	0.125	0.115	92.4	60.0-136	
Ethylbenzene	0.125	0.111	88.5	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.182	146	57.0-150	
2-Hexanone	0.625	0.633	101	54.0-147	
n-Hexane	0.125	0.164	131	55.0-137	
Iodomethane	0.625	0.657	105	74.0-134	
Isopropylbenzene	0.125	0.110	88.1	72.0-127	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3353171-1 10/22/18 10:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
p-Isopropyltoluene	0.125	0.0984	78.8	72.0-133	
2-Butanone (MEK)	0.625	0.692	111	30.0-160	
Methylene Chloride	0.125	0.0916	73.3	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.706	113	56.0-143	
Methyl tert-butyl ether	0.125	0.119	94.8	66.0-132	
Naphthalene	0.125	0.109	87.5	59.0-130	
n-Propylbenzene	0.125	0.123	98.1	74.0-126	
Styrene	0.125	0.111	89.1	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.165	132	74.0-129	J4
Tetrachloroethene	0.125	0.145	116	70.0-136	
Toluene	0.125	0.115	92.1	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.0912	73.0	61.0-139	
1,2,4-Trichlorobenzene	0.125	0.128	103	62.0-137	
1,1,1-Trichloroethane	0.125	0.138	111	69.0-126	
1,1,2-Trichloroethane	0.125	0.118	94.4	78.0-123	
Trichloroethene	0.125	0.127	101	76.0-126	
Trichlorofluoromethane	0.125	0.120	95.7	61.0-142	
1,2,3-Trichloropropane	0.125	0.120	96.1	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.126	101	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.111	88.7	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.116	92.9	73.0-127	
Vinyl acetate	0.625	0.530	84.7	43.0-159	
Vinyl chloride	0.125	0.125	99.7	63.0-134	
Xylenes, Total	0.375	0.361	96.3	72.0-127	
(S) Toluene-d8			104	75.0-131	
(S) Dibromofluoromethane			90.5	65.0-129	
(S) 4-Bromofluorobenzene			88.9	67.0-138	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3353076-2 10/23/18 00:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Dichlorodifluoromethane	U		0.000818	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	0.00130	J	0.000625	0.00250
Vinyl chloride	U		0.000683	0.00250
(S) Toluene-d8	98.5			75.0-131
(S) Dibromofluoromethane	114			65.0-129
(S) 4-Bromofluorobenzene	118			67.0-138

Laboratory Control Sample (LCS)

(LCS) R3353076-1 10/22/18 23:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.766	123	10.0-160	
Dichlorodifluoromethane	0.125	0.206	165	43.0-156	J4
1,1,2,2-Tetrachloroethane	0.125	0.120	95.9	68.0-128	
Tetrachloroethene	0.125	0.0982	78.6	70.0-136	
1,1,2-Trichlorotrifluoroethane	0.125	0.152	122	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.123	98.2	59.0-139	
Vinyl chloride	0.125	0.152	122	63.0-134	
(S) Toluene-d8			97.0	75.0-131	
(S) Dibromofluoromethane			121	65.0-129	
(S) 4-Bromofluorobenzene			120	67.0-138	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3353505-2 10/23/18 16:17

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Di-isopropyl ether	U		0.000350	0.00100
Methyl tert-butyl ether	U		0.000295	0.00100
Tetrachloroethene	U		0.000700	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
Trichloroethene	U		0.000400	0.00100
(S) Toluene-d8	126			75.0-131
(S) Dibromofluoromethane	89.5			65.0-129
(S) 4-Bromofluorobenzene	92.2			67.0-138

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3353505-1 10/23/18 14:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.127	101	70.0-123	
Di-isopropyl ether	0.125	0.127	102	60.0-136	
Methyl tert-butyl ether	0.125	0.133	107	66.0-132	
Tetrachloroethene	0.125	0.147	117	70.0-136	
1,2,4-Trichlorobenzene	0.125	0.121	96.7	62.0-137	
Trichloroethene	0.125	0.109	87.0	76.0-126	
(S) Toluene-d8			113	75.0-131	
(S) Dibromofluoromethane			106	65.0-129	
(S) 4-Bromofluorobenzene			90.2	67.0-138	



Method Blank (MB)

(MB) R3353491-2 10/23/18 10:28

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Dichlorodifluoromethane	U		0.000818	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
n-Hexane	0.00153	J	0.00106	0.00500
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
(S) Toluene-d8	97.2			75.0-131
(S) Dibromofluoromethane	116			65.0-129
(S) 4-Bromofluorobenzene	121			67.0-138

Laboratory Control Sample (LCS)

(LCS) R3353491-1 10/23/18 09:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.680	109	10.0-160	
Dichlorodifluoromethane	0.125	0.142	114	43.0-156	
cis-1,2-Dichloroethene	0.125	0.141	113	73.0-125	
n-Hexane	0.125	0.124	98.9	55.0-137	
1,1,2,2-Tetrachloroethane	0.125	0.137	110	68.0-128	
Tetrachloroethene	0.125	0.0951	76.1	70.0-136	
1,2,3-Trichlorobenzene	0.125	0.116	92.7	59.0-139	
(S) Toluene-d8			98.4	75.0-131	
(S) Dibromofluoromethane			118	65.0-129	
(S) 4-Bromofluorobenzene			120	67.0-138	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3353735-3 10/24/18 16:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Tetrachloroethene	U		0.000700	0.00250
(S) Toluene-d8	107			75.0-131
(S) Dibromofluoromethane	96.9			65.0-129
(S) 4-Bromofluorobenzene	103			67.0-138

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

(LCS) R3353735-1 10/24/18 14:59 • (LCSD) R3353735-2 10/24/18 15:18

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 %
Tetrachloroethene	0.125	0.145	0.143	116	114	70.0-136			1.41	20
(S) Toluene-d8				105	105	75.0-131				
(S) Dibromofluoromethane				104	99.9	65.0-129				
(S) 4-Bromofluorobenzene				104	104	67.0-138				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3353736-3 10/24/18 16:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Tetrachloroethene	U		0.000700	0.00250
(S) Toluene-d8	107			75.0-131
(S) Dibromofluoromethane	96.9			65.0-129
(S) 4-Bromofluorobenzene	103			67.0-138

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

(LCS) R3353736-1 10/24/18 14:59 • (LCSD) R3353736-2 10/24/18 15:18

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 %
Tetrachloroethene	0.125	0.145	0.143	116	114	70.0-136			1.41	20
(S) Toluene-d8				105	105	75.0-131				
(S) Dibromofluoromethane				104	99.9	65.0-129				
(S) 4-Bromofluorobenzene				104	104	67.0-138				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



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, the sample preparation volume or weight values differ from the standard, 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.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
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.

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



Pace National 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.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

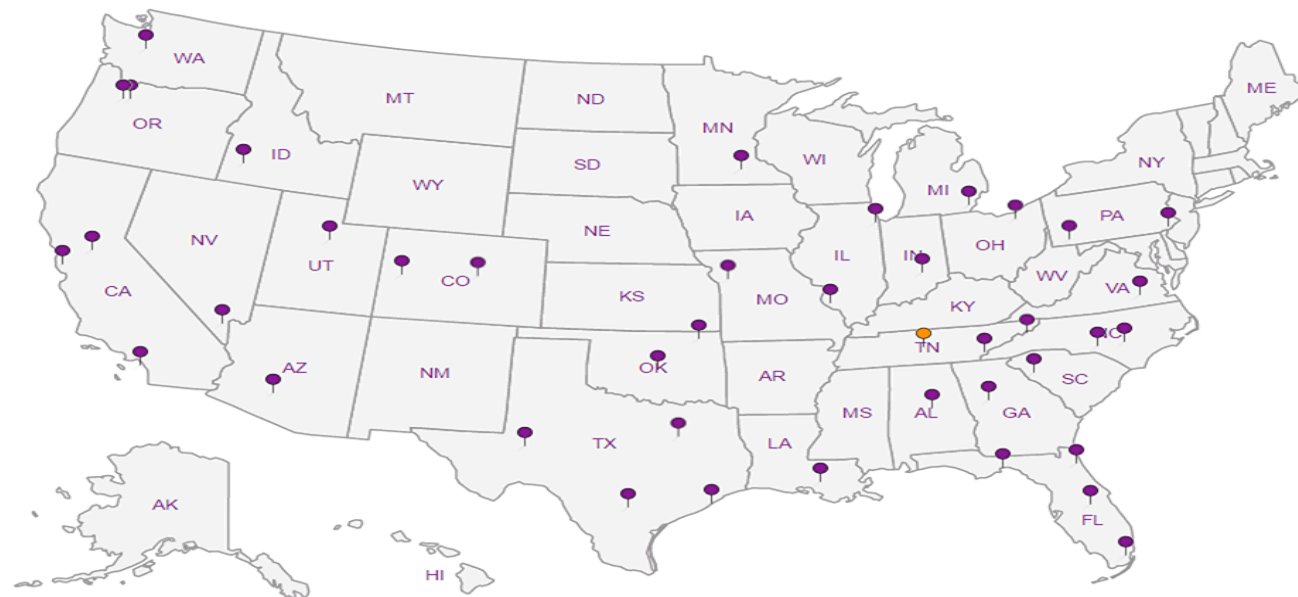
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National 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. Pace National 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 4



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



L# L1036155

F111

Acctnum: PESENVSWA
Template: T141621
Prelogin: P676248
TSR: 110 - Brian Ford
PB:

Shipped Via:

Remarks Sample # (lab only)

HOLD
-01
HOLD
02
03
04
09
HOLD
06
07

Sample Receipt Checklist

CDC Seal Present/Intact: ☒ Y ☐ N
CDC Signed/Accurate: ☒ Y ☐ N
Bottles arrive intact: ☒ Y ☐ N
Correct bottles used: ☒ Y ☐ N
Sufficient volume sent: ☒ Y ☐ N
IF Applicable
VQA Zero Headspace: ☒ Y ☐ N
Preservation Correct/Checked: ☒ Y ☐ N

If preservation required by Login: Date/Time

10-138

Condition:
NCF / OK

Report to:
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;
bhaldeman@pesenv.com

Project
Description: American Linen

City/State
Collected: Seattle, WA

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

Client Project #
1413.001.05

Lab Project #
PESENVSWA-ALP

Collected by (print):
R. McLaughlin
S. McKernan

Site/Facility ID #

P.O. #

Collected by (signature):
RTM

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

No.
of
Cntrs

Immediately
Packed on Ice N ☐ Y ☒

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
B-257-3	Grab	SS	3	10/17/18	754	2
B-257-5		SS	5		752	X X
B-257-8		SS	8		759	
B-257-10		SS	10		800	X X
B-257-15		SS	15		804	X X
B-257-20		SS	20		810	X X
B-258-3		SS	3		858	X X
B-258-5		SS	5		900	
B-258-8		SS	8		904	X X
B-258-10		SS	10		905	X X X

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

Remarks:

Samples returned via:
UPS ☒ FedEx ☐ Courier ☐

RAD SCREEN: <0.5 mR/hr

pH _____ Temp _____

Flow _____ Other _____

Tracking # 4196 3258 9710

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Date: 10/17/18 Time: 1610

Date: Time:

Date: Time:

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Trip Blank Received: Yes ☒ No
HCL / MeOH
TBR

Temp: 21.5°C
Bottles Received: 74

Date: 10/18/18 Time: 845



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



L# **L1036155**
Table #
Acctnum: **PESENVSWA**
Template: **T141621**
Prelogin: **P676248**
TSR: **110 - Brian Ford**
PB:
Shipped Via:

Remarks	Sample # (lab only)
	16
	17
	18
	19
	20
	21
	22
	23
	24
	25

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

Report to:
Brian O'Neal/Bill Haldeman

Email To: **boneal@pesenv.com;**
bhaldeman@pesenv.com

Project
Description: **American Linen**

City/State
Collected: **Seattle WA**

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

Client Project #
1413.001.05

Lab Project #
PESENVSWA-ALP

Collected by (print):
R. McLaughlin
S. McKernan

Site/Facility ID #

P.O. #

Collected by (signature):
RTM

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

No.
of
Cnts

VOCs V8260C 40mlAmb/MeOH5ml/Syr

dry weight 2ozClr-NoPres

trip VOCs V8260LLC 40mlAmb-HCl-Bik

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cnts
B-260-8	Grab	SS	8	10/17/18	1037	2
B-260-10		SS	10		1038	
B-260-15		SS	15		1045	
B-260-20		SS	20		1050	
B-261-3		SS	3		1118	
B-261-5		SS	5		1120	
B-261-8		SS	8		1128	
B-261-10		SS	10		1130	
B-261-15		SS	15		1140	
B-261-20		SS	20		1142	

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

Remarks:

RAD SCREEN: <0.5 mSv/hr

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
____ UPS ____ FedEx ____ Courier

Tracking #

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
VGA Zero Headspace: ☒ Y ☐ N
Preservation Correct/Checked: ☒ Y ☐ N

Relinquished by: (Signature)
RTM
Relinquished by: (Signature)
RTM
Relinquished by: (Signature)

Date:
10/17/18
Date:
Date:

Time:
1610
Time:
Time:

Received by: (Signature)
Received by: (Signature)
Received for lab by: (Signature)
asm

Trip Blank Received: ☒ Yes ☐ No
1 HCL / MeOH
TBR
Temp: **21.5 ± 0.2** °C
Bottles Received: **74**
Date: **10/18/18** Time: **845**

If preservation required by Login: Date/Time
Hold:
Condition: **NCF 10 OK**

Hold:	Condition: NCF / OK

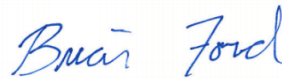
October 26, 2018

PES Environmental, Inc.- WA

Sample Delivery Group: L1036473
Samples Received: 10/19/2018
Project Number: 1413.001.05
Description: American Linen

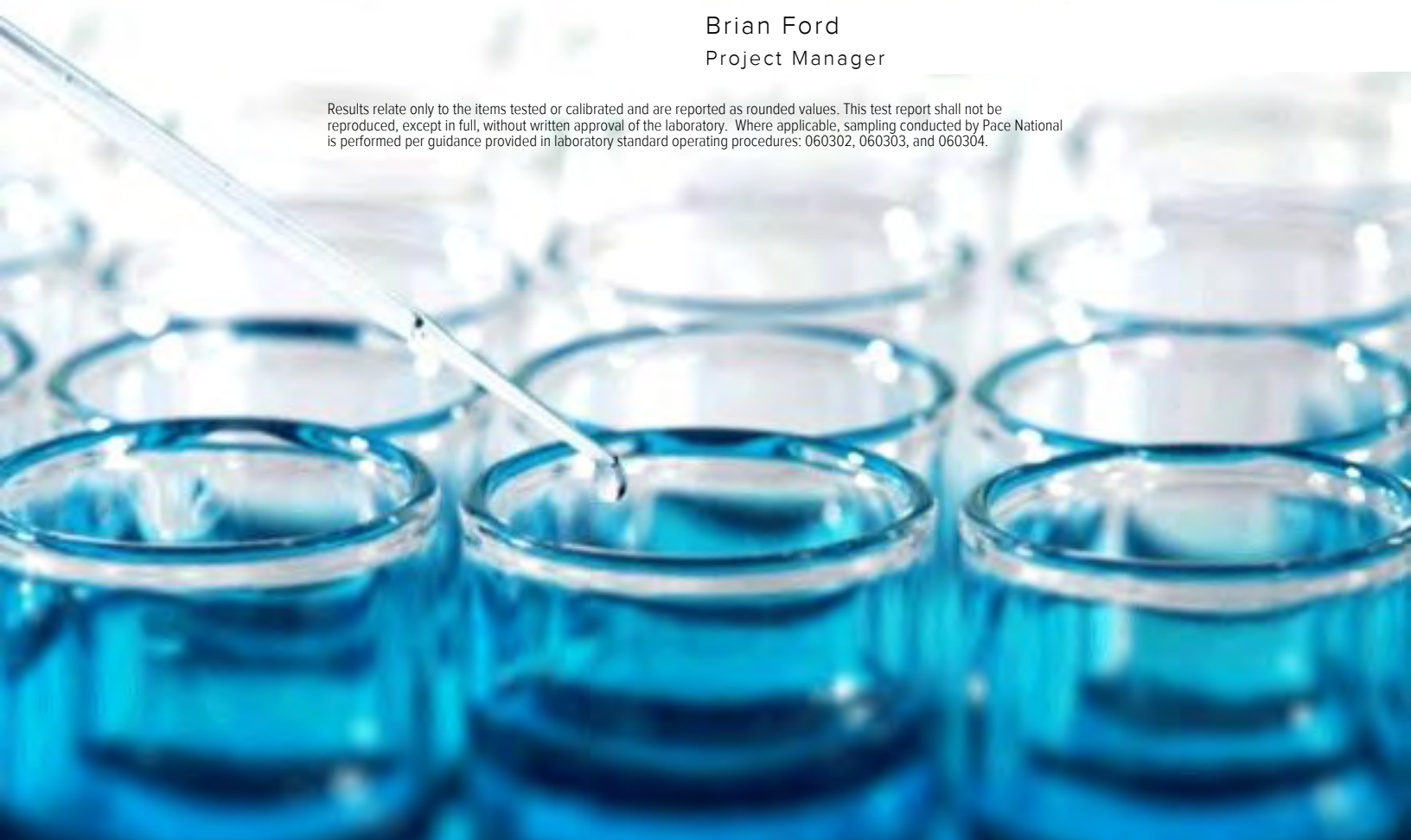
Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford
Project Manager

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 Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.





Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	4
Cn: Case Narrative	10
Sr: Sample Results	11
B-263-3 L1036473-01	11
B-263-5 L1036473-02	13
B-263-8 L1036473-03	15
B-263-10 L1036473-04	17
B-263-15 L1036473-05	19
B-263-18 L1036473-06	21
B-264-3 L1036473-07	23
B-264-5 L1036473-08	25
B-264-8 L1036473-09	27
B-264-10 L1036473-10	29
B-264-15 L1036473-11	31
B-264-16 L1036473-12	33
B-265-3 L1036473-13	35
B-265-5 L1036473-14	37
B-265-8 L1036473-15	39
B-265-10 L1036473-16	41
B-265-17.5 L1036473-17	43
B-253A-5 L1036473-18	45
B-253A-8 L1036473-19	47
B-253A-10 L1036473-20	49
B-253A-15 L1036473-21	51
B-253A-20 L1036473-22	53
B-266-5 L1036473-23	55
B-266-8 L1036473-24	57
B-266-10 L1036473-25	59
B-266-15 L1036473-26	61
B-266-20 L1036473-27	63
B-267-2.5 L1036473-28	65
B-267-5 L1036473-29	67
B-267-8 L1036473-30	69
B-267-10 L1036473-31	71
B-267-15 L1036473-32	73
B-267-20 L1036473-33	75
Qc: Quality Control Summary	77
Total Solids by Method 2540 G-2011	77

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

GI: Glossary of Terms

AI: Accreditations & Locations

Sc: Sample Chain of Custody

81

98

99

100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B-263-3 L1036473-01 Solid

			Collected by RM / SM	Collected date/time 10/18/18 08:04	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185667	1	10/24/18 12:42	10/24/18 12:49	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184455	1	10/20/18 00:39	10/22/18 18:08	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185221	1	10/20/18 00:39	10/23/18 17:01	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185845	1	10/20/18 00:39	10/25/18 00:02	JHH

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

B-263-5 L1036473-02 Solid

			Collected by RM / SM	Collected date/time 10/18/18 08:05	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185667	1	10/24/18 12:42	10/24/18 12:49	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184455	1	10/20/18 00:39	10/22/18 18:27	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185221	1	10/20/18 00:39	10/23/18 17:21	JHH

B-263-8 L1036473-03 Solid

			Collected by RM / SM	Collected date/time 10/18/18 08:06	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185667	1	10/24/18 12:42	10/24/18 12:49	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184455	1	10/20/18 00:39	10/22/18 18:45	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185221	1	10/20/18 00:39	10/23/18 17:41	JHH

B-263-10 L1036473-04 Solid

			Collected by RM / SM	Collected date/time 10/18/18 08:07	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185667	1	10/24/18 12:42	10/24/18 12:49	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184455	1	10/20/18 00:39	10/22/18 19:03	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185221	1	10/20/18 00:39	10/23/18 18:02	JHH

B-263-15 L1036473-05 Solid

			Collected by RM / SM	Collected date/time 10/18/18 08:15	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185668	1	10/24/18 13:41	10/24/18 13:49	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184455	1	10/20/18 00:39	10/22/18 19:22	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185221	1	10/20/18 00:39	10/23/18 18:22	JHH

B-263-18 L1036473-06 Solid

			Collected by RM / SM	Collected date/time 10/18/18 08:24	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185668	1	10/24/18 13:41	10/24/18 13:49	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184455	1	10/20/18 00:39	10/22/18 19:40	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185221	1	10/20/18 00:39	10/23/18 18:42	JHH

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B-264-3 L1036473-07 Solid

			Collected by RM / SM	Collected date/time 10/18/18 09:20	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185668	1	10/24/18 13:41	10/24/18 13:49	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184455	1	10/20/18 00:39	10/22/18 19:58	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185221	1	10/20/18 00:39	10/23/18 19:02	JHH

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

B-264-5 L1036473-08 Solid

			Collected by RM / SM	Collected date/time 10/18/18 09:21	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185668	1	10/24/18 13:41	10/24/18 13:49	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184455	1	10/20/18 00:39	10/22/18 20:17	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185221	1	10/20/18 00:39	10/23/18 19:22	JHH

B-264-8 L1036473-09 Solid

			Collected by RM / SM	Collected date/time 10/18/18 09:25	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185668	1	10/24/18 13:41	10/24/18 13:49	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184455	1	10/20/18 00:39	10/22/18 20:35	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185221	1	10/20/18 00:39	10/23/18 19:42	JHH

B-264-10 L1036473-10 Solid

			Collected by RM / SM	Collected date/time 10/18/18 09:26	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185668	1	10/24/18 13:41	10/24/18 13:49	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184455	1	10/20/18 00:39	10/22/18 20:54	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185221	1	10/20/18 00:39	10/23/18 20:02	JHH

B-264-15 L1036473-11 Solid

			Collected by RM / SM	Collected date/time 10/18/18 09:42	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185668	1	10/24/18 13:41	10/24/18 13:49	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184455	1	10/18/18 09:42	10/22/18 21:12	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185221	1	10/18/18 09:42	10/23/18 20:22	JHH

B-264-16 L1036473-12 Solid

			Collected by RM / SM	Collected date/time 10/18/18 09:58	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185668	1	10/24/18 13:41	10/24/18 13:49	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184727	1	10/18/18 09:58	10/22/18 18:41	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185319	1	10/18/18 09:58	10/24/18 13:12	BMB



B-265-3 L1036473-13 Solid

			Collected by RM / SM	Collected date/time 10/18/18 10:38	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185668	1	10/24/18 13:41	10/24/18 13:49	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184727	1	10/18/18 10:38	10/22/18 19:02	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185319	1	10/18/18 10:38	10/24/18 13:31	BMB

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

B-265-5 L1036473-14 Solid

			Collected by RM / SM	Collected date/time 10/18/18 10:40	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185668	1	10/24/18 13:41	10/24/18 13:49	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184727	1	10/18/18 10:40	10/22/18 19:22	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185319	10	10/18/18 10:40	10/24/18 16:11	BMB

B-265-8 L1036473-15 Solid

			Collected by RM / SM	Collected date/time 10/18/18 10:47	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185670	1	10/24/18 13:19	10/24/18 13:36	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184727	1	10/18/18 10:47	10/22/18 19:43	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185319	10	10/18/18 10:47	10/24/18 16:32	BMB

B-265-10 L1036473-16 Solid

			Collected by RM / SM	Collected date/time 10/18/18 10:50	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185670	1	10/24/18 13:19	10/24/18 13:36	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184727	1	10/18/18 10:50	10/22/18 20:03	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185319	8	10/18/18 10:50	10/24/18 16:52	BMB

B-265-17.5 L1036473-17 Solid

			Collected by RM / SM	Collected date/time 10/18/18 11:02	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185670	1	10/24/18 13:19	10/24/18 13:36	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184727	1	10/18/18 11:02	10/22/18 20:24	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185319	1	10/18/18 11:02	10/24/18 13:51	BMB

B-253A-5 L1036473-18 Solid

			Collected by RM / SM	Collected date/time 10/18/18 12:34	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185670	1	10/24/18 13:19	10/24/18 13:36	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184727	1	10/18/18 12:34	10/22/18 20:44	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185319	1	10/18/18 12:34	10/24/18 14:12	BMB

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B-253A-8 L1036473-19 Solid

			Collected by RM / SM	Collected date/time 10/18/18 12:38	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185670	1	10/24/18 13:19	10/24/18 13:36	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184727	1	10/18/18 12:38	10/22/18 21:04	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185319	4	10/18/18 12:38	10/24/18 17:12	BMB

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

B-253A-10 L1036473-20 Solid

			Collected by RM / SM	Collected date/time 10/18/18 12:40	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185670	1	10/24/18 13:19	10/24/18 13:36	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184727	1	10/18/18 12:40	10/22/18 21:25	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185319	10	10/18/18 12:40	10/24/18 17:32	BMB

B-253A-15 L1036473-21 Solid

			Collected by RM / SM	Collected date/time 10/18/18 12:44	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185670	1	10/24/18 13:19	10/24/18 13:36	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184727	1	10/18/18 12:44	10/22/18 21:45	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185319	80	10/18/18 12:44	10/24/18 19:32	BMB

B-253A-20 L1036473-22 Solid

			Collected by RM / SM	Collected date/time 10/18/18 13:05	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185670	1	10/24/18 13:19	10/24/18 13:36	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184727	1	10/18/18 13:05	10/22/18 22:05	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185319	4	10/18/18 13:05	10/24/18 17:52	BMB

B-266-5 L1036473-23 Solid

			Collected by RM / SM	Collected date/time 10/18/18 13:35	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185670	1	10/24/18 13:19	10/24/18 13:36	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184727	1	10/18/18 13:35	10/22/18 22:26	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185319	1	10/18/18 13:35	10/24/18 14:32	BMB

B-266-8 L1036473-24 Solid

			Collected by RM / SM	Collected date/time 10/18/18 13:38	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185670	1	10/24/18 13:19	10/24/18 13:36	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184727	1.06	10/18/18 13:38	10/22/18 22:46	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185319	1.05	10/18/18 13:38	10/24/18 14:52	BMB

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B-266-10 L1036473-25 Solid

			Collected by RM / SM	Collected date/time 10/18/18 13:39	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185671	1	10/24/18 13:53	10/24/18 14:00	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184727	1.41	10/18/18 13:39	10/22/18 23:06	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185319	1.41	10/18/18 13:39	10/24/18 15:12	BMB

¹ Cp

² Tc

³ Ss

B-266-15 L1036473-26 Solid

			Collected by RM / SM	Collected date/time 10/18/18 13:48	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185671	1	10/24/18 13:53	10/24/18 14:00	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184727	1.16	10/18/18 13:48	10/22/18 23:27	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185319	11.6	10/18/18 13:48	10/24/18 18:12	BMB

⁴ Cn

⁵ Sr

⁶ Qc

B-266-20 L1036473-27 Solid

			Collected by RM / SM	Collected date/time 10/18/18 13:53	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185671	1	10/24/18 13:53	10/24/18 14:00	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184727	1	10/18/18 13:53	10/22/18 23:47	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185319	40	10/18/18 13:53	10/24/18 19:12	BMB

⁷ Gl

⁸ Al

⁹ Sc

B-267-2.5 L1036473-28 Solid

			Collected by RM / SM	Collected date/time 10/18/18 14:43	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185671	1	10/24/18 13:53	10/24/18 14:00	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184727	1	10/18/18 14:43	10/23/18 00:07	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185319	1	10/18/18 14:43	10/24/18 15:32	BMB

B-267-5 L1036473-29 Solid

			Collected by RM / SM	Collected date/time 10/18/18 14:44	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185671	1	10/24/18 13:53	10/24/18 14:00	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184727	1	10/18/18 14:44	10/23/18 00:28	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185319	1	10/18/18 14:44	10/24/18 15:52	BMB

B-267-8 L1036473-30 Solid

			Collected by RM / SM	Collected date/time 10/18/18 14:49	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185671	1	10/24/18 13:53	10/24/18 14:00	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184727	1	10/18/18 14:49	10/23/18 00:48	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185319	4	10/18/18 14:49	10/24/18 18:32	BMB



B-267-10 L1036473-31 Solid

			Collected by RM / SM	Collected date/time 10/18/18 14:50	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185671	1	10/24/18 13:53	10/24/18 14:00	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184727	1	10/18/18 14:50	10/23/18 01:08	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185319	4	10/18/18 14:50	10/24/18 18:52	BMB

¹ Cp² Tc³ Ss

B-267-15 L1036473-32 Solid

			Collected by RM / SM	Collected date/time 10/18/18 14:55	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185671	1	10/24/18 13:53	10/24/18 14:00	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1186559	20	10/18/18 14:55	10/26/18 05:16	LRL

⁴ Cn⁵ Sr⁶ Qc

B-267-20 L1036473-33 Solid

			Collected by RM / SM	Collected date/time 10/18/18 15:17	Received date/time 10/19/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185671	1	10/24/18 13:53	10/24/18 14:00	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1186559	21.8	10/18/18 15:17	10/26/18 05:35	LRL

⁷ Gl⁸ Al⁹ Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, 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
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

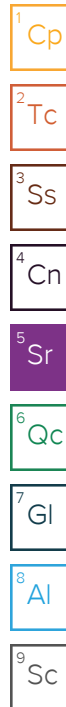


Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.7		1	10/24/2018 12:49	WG1185667

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0168	0.0306	1	10/23/2018 17:01	WG1185221
Acrylonitrile	U		0.00233	0.0153	1	10/22/2018 18:08	WG1184455
Benzene	U		0.000490	0.00122	1	10/22/2018 18:08	WG1184455
Bromobenzene	U		0.00129	0.0153	1	10/22/2018 18:08	WG1184455
Bromodichloromethane	U		0.000965	0.00306	1	10/22/2018 18:08	WG1184455
Bromochloromethane	U		0.00138	0.00612	1	10/22/2018 18:08	WG1184455
Bromoform	U		0.00732	0.0306	1	10/22/2018 18:08	WG1184455
Bromomethane	U		0.00453	0.0153	1	10/22/2018 18:08	WG1184455
n-Butylbenzene	U		0.00470	0.0153	1	10/22/2018 18:08	WG1184455
sec-Butylbenzene	U		0.00310	0.0153	1	10/22/2018 18:08	WG1184455
tert-Butylbenzene	U		0.00190	0.00612	1	10/22/2018 18:08	WG1184455
Carbon disulfide	U		0.00497	0.0153	1	10/22/2018 18:08	WG1184455
Carbon tetrachloride	U		0.00132	0.00612	1	10/22/2018 18:08	WG1184455
Chlorobenzene	U		0.000702	0.00306	1	10/22/2018 18:08	WG1184455
Chlorodibromomethane	U		0.000551	0.00306	1	10/22/2018 18:08	WG1184455
Chloroethane	U		0.00132	0.00612	1	10/22/2018 18:08	WG1184455
Chloroform	0.00110	B J	0.000508	0.00306	1	10/22/2018 18:08	WG1184455
Chloromethane	U		0.00170	0.0153	1	10/22/2018 18:08	WG1184455
2-Chlorotoluene	U		0.00113	0.00306	1	10/22/2018 18:08	WG1184455
4-Chlorotoluene	U		0.00138	0.00612	1	10/22/2018 18:08	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00624	0.0306	1	10/22/2018 18:08	WG1184455
1,2-Dibromoethane	U		0.000643	0.00306	1	10/22/2018 18:08	WG1184455
Dibromomethane	U		0.00122	0.00612	1	10/22/2018 18:08	WG1184455
1,2-Dichlorobenzene	U		0.00178	0.00612	1	10/22/2018 18:08	WG1184455
1,3-Dichlorobenzene	U		0.00208	0.00612	1	10/22/2018 18:08	WG1184455
1,4-Dichlorobenzene	U		0.00241	0.00612	1	10/22/2018 18:08	WG1184455
Dichlorodifluoromethane	U		0.00100	0.00306	1	10/23/2018 17:01	WG1185221
1,1-Dichloroethane	U		0.000704	0.00306	1	10/22/2018 18:08	WG1184455
1,2-Dichloroethane	U		0.000582	0.00306	1	10/22/2018 18:08	WG1184455
1,1-Dichloroethene	U		0.000612	0.00306	1	10/22/2018 18:08	WG1184455
cis-1,2-Dichloroethene	0.00113	J	0.000845	0.00306	1	10/23/2018 17:01	WG1185221
trans-1,2-Dichloroethene	U		0.00175	0.00612	1	10/22/2018 18:08	WG1184455
1,2-Dichloropropane	U		0.00156	0.00612	1	10/22/2018 18:08	WG1184455
1,1-Dichloropropene	U		0.000857	0.00306	1	10/22/2018 18:08	WG1184455
1,3-Dichloropropane	U		0.00214	0.00612	1	10/22/2018 18:08	WG1184455
cis-1,3-Dichloropropene	U		0.000830	0.00306	1	10/22/2018 18:08	WG1184455
trans-1,3-Dichloropropene	U	J4	0.00187	0.00612	1	10/22/2018 18:08	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00171	0.00612	1	10/22/2018 18:08	WG1184455
2,2-Dichloropropane	U		0.000971	0.00306	1	10/22/2018 18:08	WG1184455
Di-isopropyl ether	U		0.000429	0.00122	1	10/22/2018 18:08	WG1184455
Ethylbenzene	U		0.000649	0.00306	1	10/22/2018 18:08	WG1184455
Hexachloro-1,3-butadiene	U		0.0156	0.0306	1	10/22/2018 18:08	WG1184455
2-Hexanone	U		0.0122	0.0306	1	10/22/2018 18:08	WG1184455
n-Hexane	U		0.00130	0.00612	1	10/22/2018 18:08	WG1184455
Iodomethane	U		0.00741	0.0153	1	10/22/2018 18:08	WG1184455
Isopropylbenzene	U		0.00106	0.00306	1	10/22/2018 18:08	WG1184455
p-Isopropyltoluene	U		0.00285	0.00612	1	10/22/2018 18:08	WG1184455
2-Butanone (MEK)	0.0386		0.0153	0.0306	1	10/22/2018 18:08	WG1184455
Methylene Chloride	U		0.00813	0.0306	1	10/22/2018 18:08	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0122	0.0306	1	10/22/2018 18:08	WG1184455





Collected date/time: 10/18/18 08:04

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000361	0.00122	1	10/22/2018 18:08	WG1184455
Naphthalene	U		0.00382	0.0153	1	10/22/2018 18:08	WG1184455
n-Propylbenzene	U		0.00144	0.00612	1	10/22/2018 18:08	WG1184455
Styrene	U		0.00334	0.0153	1	10/22/2018 18:08	WG1184455
1,1,1,2-Tetrachloroethane	U	J4	0.000612	0.00306	1	10/22/2018 18:08	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000478	0.00306	1	10/23/2018 17:01	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000827	0.00306	1	10/22/2018 18:08	WG1184455
Tetrachloroethene	0.0143		0.000857	0.00306	1	10/25/2018 00:02	WG1185845
Toluene	U		0.00153	0.00612	1	10/22/2018 18:08	WG1184455
1,2,3-Trichlorobenzene	U		0.000765	0.00306	1	10/23/2018 17:01	WG1185221
1,2,4-Trichlorobenzene	U		0.00590	0.0153	1	10/22/2018 18:08	WG1184455
1,1,1-Trichloroethane	U		0.000337	0.00306	1	10/22/2018 18:08	WG1184455
1,1,2-Trichloroethane	U		0.00108	0.00306	1	10/22/2018 18:08	WG1184455
Trichloroethene	0.000626	J	0.000490	0.00122	1	10/22/2018 18:08	WG1184455
Trichlorofluoromethane	U		0.000612	0.00306	1	10/22/2018 18:08	WG1184455
1,2,3-Trichloropropane	U		0.00624	0.0153	1	10/22/2018 18:08	WG1184455
1,2,4-Trimethylbenzene	U		0.00142	0.00612	1	10/22/2018 18:08	WG1184455
1,2,3-Trimethylbenzene	U		0.00141	0.00612	1	10/22/2018 18:08	WG1184455
1,3,5-Trimethylbenzene	U		0.00132	0.00612	1	10/22/2018 18:08	WG1184455
Vinyl acetate	U		0.00431	0.0153	1	10/22/2018 18:08	WG1184455
Vinyl chloride	U		0.000836	0.00306	1	10/22/2018 18:08	WG1184455
Xylenes, Total	U		0.00585	0.00796	1	10/22/2018 18:08	WG1184455
(S) Toluene-d8	105			75.0-131		10/22/2018 18:08	WG1184455
(S) Toluene-d8	98.1			75.0-131		10/23/2018 17:01	WG1185221
(S) Toluene-d8	102			75.0-131		10/25/2018 00:02	WG1185845
(S) Dibromofluoromethane	92.1			65.0-129		10/22/2018 18:08	WG1184455
(S) Dibromofluoromethane	115			65.0-129		10/23/2018 17:01	WG1185221
(S) Dibromofluoromethane	95.0			65.0-129		10/25/2018 00:02	WG1185845
(S) 4-Bromofluorobenzene	93.0			67.0-138		10/22/2018 18:08	WG1184455
(S) 4-Bromofluorobenzene	122			67.0-138		10/23/2018 17:01	WG1185221
(S) 4-Bromofluorobenzene	104			67.0-138		10/25/2018 00:02	WG1185845

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

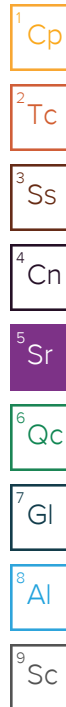


Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.5		1	10/24/2018 12:49	WG1185667

Volatile Organic Compounds (GC/MS) 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	0.0270	1	10/23/2018 17:21	WG1185221
Acrylonitrile	U		0.00205	0.0135	1	10/22/2018 18:27	WG1184455
Benzene	U		0.000432	0.00108	1	10/22/2018 18:27	WG1184455
Bromobenzene	U		0.00113	0.0135	1	10/22/2018 18:27	WG1184455
Bromodichloromethane	U		0.000852	0.00270	1	10/22/2018 18:27	WG1184455
Bromochloromethane	U		0.00122	0.00540	1	10/22/2018 18:27	WG1184455
Bromoform	U		0.00646	0.0270	1	10/22/2018 18:27	WG1184455
Bromomethane	U		0.00400	0.0135	1	10/22/2018 18:27	WG1184455
n-Butylbenzene	U		0.00415	0.0135	1	10/22/2018 18:27	WG1184455
sec-Butylbenzene	U		0.00273	0.0135	1	10/22/2018 18:27	WG1184455
tert-Butylbenzene	U		0.00167	0.00540	1	10/22/2018 18:27	WG1184455
Carbon disulfide	U		0.00439	0.0135	1	10/22/2018 18:27	WG1184455
Carbon tetrachloride	U		0.00117	0.00540	1	10/22/2018 18:27	WG1184455
Chlorobenzene	U		0.000619	0.00270	1	10/22/2018 18:27	WG1184455
Chlorodibromomethane	U		0.000486	0.00270	1	10/22/2018 18:27	WG1184455
Chloroethane	U		0.00117	0.00540	1	10/22/2018 18:27	WG1184455
Chloroform	U		0.000448	0.00270	1	10/22/2018 18:27	WG1184455
Chloromethane	U		0.00150	0.0135	1	10/22/2018 18:27	WG1184455
2-Chlorotoluene	U		0.000994	0.00270	1	10/22/2018 18:27	WG1184455
4-Chlorotoluene	U		0.00122	0.00540	1	10/22/2018 18:27	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00551	0.0270	1	10/22/2018 18:27	WG1184455
1,2-Dibromoethane	U		0.000567	0.00270	1	10/22/2018 18:27	WG1184455
Dibromomethane	U		0.00108	0.00540	1	10/22/2018 18:27	WG1184455
1,2-Dichlorobenzene	U		0.00157	0.00540	1	10/22/2018 18:27	WG1184455
1,3-Dichlorobenzene	U		0.00184	0.00540	1	10/22/2018 18:27	WG1184455
1,4-Dichlorobenzene	U		0.00213	0.00540	1	10/22/2018 18:27	WG1184455
Dichlorodifluoromethane	U		0.000884	0.00270	1	10/23/2018 17:21	WG1185221
1,1-Dichloroethane	U		0.000621	0.00270	1	10/22/2018 18:27	WG1184455
1,2-Dichloroethane	U		0.000513	0.00270	1	10/22/2018 18:27	WG1184455
1,1-Dichloroethene	U		0.000540	0.00270	1	10/22/2018 18:27	WG1184455
cis-1,2-Dichloroethene	0.0164		0.000746	0.00270	1	10/23/2018 17:21	WG1185221
trans-1,2-Dichloroethene	U		0.00155	0.00540	1	10/22/2018 18:27	WG1184455
1,2-Dichloropropane	U		0.00137	0.00540	1	10/22/2018 18:27	WG1184455
1,1-Dichloropropene	U		0.000756	0.00270	1	10/22/2018 18:27	WG1184455
1,3-Dichloropropane	U		0.00189	0.00540	1	10/22/2018 18:27	WG1184455
cis-1,3-Dichloropropene	U		0.000733	0.00270	1	10/22/2018 18:27	WG1184455
trans-1,3-Dichloropropene	U	J4	0.00165	0.00540	1	10/22/2018 18:27	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00151	0.00540	1	10/22/2018 18:27	WG1184455
2,2-Dichloropropane	U		0.000857	0.00270	1	10/22/2018 18:27	WG1184455
Di-isopropyl ether	U		0.000378	0.00108	1	10/22/2018 18:27	WG1184455
Ethylbenzene	U		0.000573	0.00270	1	10/22/2018 18:27	WG1184455
Hexachloro-1,3-butadiene	U		0.0137	0.0270	1	10/22/2018 18:27	WG1184455
2-Hexanone	U		0.0108	0.0270	1	10/22/2018 18:27	WG1184455
n-Hexane	U		0.00115	0.00540	1	10/23/2018 17:21	WG1185221
Iodomethane	U		0.00654	0.0135	1	10/22/2018 18:27	WG1184455
Isopropylbenzene	U		0.000933	0.00270	1	10/22/2018 18:27	WG1184455
p-Isopropyltoluene	U		0.00252	0.00540	1	10/22/2018 18:27	WG1184455
2-Butanone (MEK)	0.0253	J	0.0135	0.0270	1	10/22/2018 18:27	WG1184455
Methylene Chloride	U		0.00718	0.0270	1	10/22/2018 18:27	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0270	1	10/22/2018 18:27	WG1184455





Collected date/time: 10/18/18 08:05

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000319	0.00108	1	10/22/2018 18:27	WG1184455
Naphthalene	U		0.00337	0.0135	1	10/22/2018 18:27	WG1184455
n-Propylbenzene	U		0.00128	0.00540	1	10/22/2018 18:27	WG1184455
Styrene	U		0.00295	0.0135	1	10/22/2018 18:27	WG1184455
1,1,1,2-Tetrachloroethane	U	J4	0.000540	0.00270	1	10/22/2018 18:27	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000421	0.00270	1	10/23/2018 17:21	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000729	0.00270	1	10/22/2018 18:27	WG1184455
Tetrachloroethene	0.0302		0.000756	0.00270	1	10/22/2018 18:27	WG1184455
Toluene	U		0.00135	0.00540	1	10/22/2018 18:27	WG1184455
1,2,3-Trichlorobenzene	U		0.000675	0.00270	1	10/23/2018 17:21	WG1185221
1,2,4-Trichlorobenzene	U		0.00521	0.0135	1	10/22/2018 18:27	WG1184455
1,1,1-Trichloroethane	U		0.000297	0.00270	1	10/22/2018 18:27	WG1184455
1,1,2-Trichloroethane	U		0.000954	0.00270	1	10/22/2018 18:27	WG1184455
Trichloroethene	0.00438		0.000432	0.00108	1	10/22/2018 18:27	WG1184455
Trichlorofluoromethane	U		0.000540	0.00270	1	10/22/2018 18:27	WG1184455
1,2,3-Trichloropropane	U		0.00551	0.0135	1	10/22/2018 18:27	WG1184455
1,2,4-Trimethylbenzene	U		0.00125	0.00540	1	10/22/2018 18:27	WG1184455
1,2,3-Trimethylbenzene	U		0.00124	0.00540	1	10/22/2018 18:27	WG1184455
1,3,5-Trimethylbenzene	U		0.00117	0.00540	1	10/22/2018 18:27	WG1184455
Vinyl acetate	U		0.00380	0.0135	1	10/22/2018 18:27	WG1184455
Vinyl chloride	U		0.000738	0.00270	1	10/22/2018 18:27	WG1184455
Xylenes, Total	U		0.00517	0.00702	1	10/22/2018 18:27	WG1184455
(S) Toluene-d8	103			75.0-131		10/22/2018 18:27	WG1184455
(S) Toluene-d8	99.0			75.0-131		10/23/2018 17:21	WG1185221
(S) Dibromofluoromethane	91.8			65.0-129		10/22/2018 18:27	WG1184455
(S) Dibromofluoromethane	114			65.0-129		10/23/2018 17:21	WG1185221
(S) 4-Bromofluorobenzene	93.7			67.0-138		10/22/2018 18:27	WG1184455
(S) 4-Bromofluorobenzene	118			67.0-138		10/23/2018 17:21	WG1185221

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	94.8		1	10/24/2018 12:49	WG1185667

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0145	0.0264	1	10/23/2018 17:41	WG1185221
Acrylonitrile	U		0.00200	0.0132	1	10/22/2018 18:45	WG1184455
Benzene	U		0.000422	0.00105	1	10/22/2018 18:45	WG1184455
Bromobenzene	U		0.00111	0.0132	1	10/22/2018 18:45	WG1184455
Bromodichloromethane	U		0.000831	0.00264	1	10/22/2018 18:45	WG1184455
Bromochloromethane	U		0.00119	0.00527	1	10/22/2018 18:45	WG1184455
Bromoform	U		0.00631	0.0264	1	10/22/2018 18:45	WG1184455
Bromomethane	U		0.00390	0.0132	1	10/22/2018 18:45	WG1184455
n-Butylbenzene	U		0.00405	0.0132	1	10/22/2018 18:45	WG1184455
sec-Butylbenzene	U		0.00267	0.0132	1	10/22/2018 18:45	WG1184455
tert-Butylbenzene	U		0.00163	0.00527	1	10/22/2018 18:45	WG1184455
Carbon disulfide	U		0.00428	0.0132	1	10/22/2018 18:45	WG1184455
Carbon tetrachloride	U		0.00114	0.00527	1	10/22/2018 18:45	WG1184455
Chlorobenzene	U		0.000604	0.00264	1	10/22/2018 18:45	WG1184455
Chlorodibromomethane	U		0.000475	0.00264	1	10/22/2018 18:45	WG1184455
Chloroethane	U		0.00114	0.00527	1	10/22/2018 18:45	WG1184455
Chloroform	0.00135	B J	0.000438	0.00264	1	10/22/2018 18:45	WG1184455
Chloromethane	U		0.00147	0.0132	1	10/22/2018 18:45	WG1184455
2-Chlorotoluene	U		0.000970	0.00264	1	10/22/2018 18:45	WG1184455
4-Chlorotoluene	U		0.00119	0.00527	1	10/22/2018 18:45	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00538	0.0264	1	10/22/2018 18:45	WG1184455
1,2-Dibromoethane	U		0.000554	0.00264	1	10/22/2018 18:45	WG1184455
Dibromomethane	U		0.00105	0.00527	1	10/22/2018 18:45	WG1184455
1,2-Dichlorobenzene	U		0.00153	0.00527	1	10/22/2018 18:45	WG1184455
1,3-Dichlorobenzene	U		0.00179	0.00527	1	10/22/2018 18:45	WG1184455
1,4-Dichlorobenzene	U		0.00208	0.00527	1	10/22/2018 18:45	WG1184455
Dichlorodifluoromethane	U		0.000863	0.00264	1	10/23/2018 17:41	WG1185221
1,1-Dichloroethane	U		0.000607	0.00264	1	10/22/2018 18:45	WG1184455
1,2-Dichloroethane	U		0.000501	0.00264	1	10/22/2018 18:45	WG1184455
1,1-Dichloroethene	U		0.000527	0.00264	1	10/22/2018 18:45	WG1184455
cis-1,2-Dichloroethene	0.0277		0.000728	0.00264	1	10/23/2018 17:41	WG1185221
trans-1,2-Dichloroethene	U		0.00151	0.00527	1	10/22/2018 18:45	WG1184455
1,2-Dichloropropane	U		0.00134	0.00527	1	10/22/2018 18:45	WG1184455
1,1-Dichloropropene	U		0.000738	0.00264	1	10/22/2018 18:45	WG1184455
1,3-Dichloropropane	U		0.00185	0.00527	1	10/22/2018 18:45	WG1184455
cis-1,3-Dichloropropene	U		0.000715	0.00264	1	10/22/2018 18:45	WG1184455
trans-1,3-Dichloropropene	U	J4	0.00161	0.00527	1	10/22/2018 18:45	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00148	0.00527	1	10/22/2018 18:45	WG1184455
2,2-Dichloropropane	U		0.000836	0.00264	1	10/22/2018 18:45	WG1184455
Di-isopropyl ether	U		0.000369	0.00105	1	10/22/2018 18:45	WG1184455
Ethylbenzene	U		0.000559	0.00264	1	10/22/2018 18:45	WG1184455
Hexachloro-1,3-butadiene	U		0.0134	0.0264	1	10/22/2018 18:45	WG1184455
2-Hexanone	U		0.0105	0.0264	1	10/22/2018 18:45	WG1184455
n-Hexane	U		0.00112	0.00527	1	10/22/2018 18:45	WG1184455
Iodomethane	U		0.00638	0.0132	1	10/22/2018 18:45	WG1184455
Isopropylbenzene	U		0.000910	0.00264	1	10/22/2018 18:45	WG1184455
p-Isopropyltoluene	U		0.00246	0.00527	1	10/22/2018 18:45	WG1184455
2-Butanone (MEK)	0.0258	J	0.0132	0.0264	1	10/22/2018 18:45	WG1184455
Methylene Chloride	U		0.00700	0.0264	1	10/22/2018 18:45	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0105	0.0264	1	10/22/2018 18:45	WG1184455

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 08:06

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000311	0.00105	1	10/22/2018 18:45	WG1184455
Naphthalene	U		0.00329	0.0132	1	10/22/2018 18:45	WG1184455
n-Propylbenzene	U		0.00124	0.00527	1	10/22/2018 18:45	WG1184455
Styrene	U		0.00288	0.0132	1	10/22/2018 18:45	WG1184455
1,1,1,2-Tetrachloroethane	U	J4	0.000527	0.00264	1	10/22/2018 18:45	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000411	0.00264	1	10/23/2018 17:41	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000712	0.00264	1	10/22/2018 18:45	WG1184455
Tetrachloroethene	0.0301		0.000738	0.00264	1	10/22/2018 18:45	WG1184455
Toluene	U		0.00132	0.00527	1	10/22/2018 18:45	WG1184455
1,2,3-Trichlorobenzene	U		0.000659	0.00264	1	10/23/2018 17:41	WG1185221
1,2,4-Trichlorobenzene	U		0.00508	0.0132	1	10/22/2018 18:45	WG1184455
1,1,1-Trichloroethane	U		0.000290	0.00264	1	10/22/2018 18:45	WG1184455
1,1,2-Trichloroethane	U		0.000931	0.00264	1	10/22/2018 18:45	WG1184455
Trichloroethene	0.00471		0.000422	0.00105	1	10/22/2018 18:45	WG1184455
Trichlorofluoromethane	U		0.000527	0.00264	1	10/22/2018 18:45	WG1184455
1,2,3-Trichloropropane	U		0.00538	0.0132	1	10/22/2018 18:45	WG1184455
1,2,4-Trimethylbenzene	U		0.00122	0.00527	1	10/22/2018 18:45	WG1184455
1,2,3-Trimethylbenzene	U		0.00121	0.00527	1	10/22/2018 18:45	WG1184455
1,3,5-Trimethylbenzene	U		0.00114	0.00527	1	10/22/2018 18:45	WG1184455
Vinyl acetate	U		0.00371	0.0132	1	10/22/2018 18:45	WG1184455
Vinyl chloride	U		0.000720	0.00264	1	10/22/2018 18:45	WG1184455
Xylenes, Total	U		0.00504	0.00686	1	10/22/2018 18:45	WG1184455
(S) Toluene-d8	103			75.0-131		10/22/2018 18:45	WG1184455
(S) Toluene-d8	99.9			75.0-131		10/23/2018 17:41	WG1185221
(S) Dibromofluoromethane	91.7			65.0-129		10/22/2018 18:45	WG1184455
(S) Dibromofluoromethane	113			65.0-129		10/23/2018 17:41	WG1185221
(S) 4-Bromofluorobenzene	95.6			67.0-138		10/22/2018 18:45	WG1184455
(S) 4-Bromofluorobenzene	120			67.0-138		10/23/2018 17:41	WG1185221

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	87.9		1	10/24/2018 12:49	WG1185667

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0156	0.0285	1	10/23/2018 18:02	WG1185221
Acrylonitrile	U		0.00216	0.0142	1	10/22/2018 19:03	WG1184455
Benzene	U		0.000455	0.00114	1	10/22/2018 19:03	WG1184455
Bromobenzene	U		0.00119	0.0142	1	10/22/2018 19:03	WG1184455
Bromodichloromethane	U		0.000897	0.00285	1	10/22/2018 19:03	WG1184455
Bromochloromethane	U		0.00129	0.00569	1	10/22/2018 19:03	WG1184455
Bromoform	U		0.00681	0.0285	1	10/22/2018 19:03	WG1184455
Bromomethane	U		0.00421	0.0142	1	10/22/2018 19:03	WG1184455
n-Butylbenzene	U		0.00437	0.0142	1	10/22/2018 19:03	WG1184455
sec-Butylbenzene	U		0.00288	0.0142	1	10/22/2018 19:03	WG1184455
tert-Butylbenzene	U		0.00176	0.00569	1	10/22/2018 19:03	WG1184455
Carbon disulfide	U		0.00462	0.0142	1	10/22/2018 19:03	WG1184455
Carbon tetrachloride	U		0.00123	0.00569	1	10/22/2018 19:03	WG1184455
Chlorobenzene	U		0.000652	0.00285	1	10/22/2018 19:03	WG1184455
Chlorodibromomethane	U		0.000512	0.00285	1	10/22/2018 19:03	WG1184455
Chloroethane	U		0.00123	0.00569	1	10/22/2018 19:03	WG1184455
Chloroform	U		0.000472	0.00285	1	10/22/2018 19:03	WG1184455
Chloromethane	U		0.00158	0.0142	1	10/22/2018 19:03	WG1184455
2-Chlorotoluene	U		0.00105	0.00285	1	10/22/2018 19:03	WG1184455
4-Chlorotoluene	U		0.00129	0.00569	1	10/22/2018 19:03	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00580	0.0285	1	10/22/2018 19:03	WG1184455
1,2-Dibromoethane	U		0.000597	0.00285	1	10/22/2018 19:03	WG1184455
Dibromomethane	U		0.00114	0.00569	1	10/22/2018 19:03	WG1184455
1,2-Dichlorobenzene	U		0.00165	0.00569	1	10/22/2018 19:03	WG1184455
1,3-Dichlorobenzene	U		0.00193	0.00569	1	10/22/2018 19:03	WG1184455
1,4-Dichlorobenzene	U		0.00224	0.00569	1	10/22/2018 19:03	WG1184455
Dichlorodifluoromethane	U		0.000931	0.00285	1	10/23/2018 18:02	WG1185221
1,1-Dichloroethane	U		0.000654	0.00285	1	10/22/2018 19:03	WG1184455
1,2-Dichloroethane	U		0.000541	0.00285	1	10/22/2018 19:03	WG1184455
1,1-Dichloroethene	U		0.000569	0.00285	1	10/22/2018 19:03	WG1184455
cis-1,2-Dichloroethene	U		0.000785	0.00285	1	10/22/2018 19:03	WG1184455
trans-1,2-Dichloroethene	U		0.00163	0.00569	1	10/22/2018 19:03	WG1184455
1,2-Dichloropropane	U		0.00145	0.00569	1	10/22/2018 19:03	WG1184455
1,1-Dichloropropene	U		0.000797	0.00285	1	10/22/2018 19:03	WG1184455
1,3-Dichloropropane	U		0.00199	0.00569	1	10/22/2018 19:03	WG1184455
cis-1,3-Dichloropropene	U		0.000772	0.00285	1	10/22/2018 19:03	WG1184455
trans-1,3-Dichloropropene	U	J4	0.00174	0.00569	1	10/22/2018 19:03	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00159	0.00569	1	10/22/2018 19:03	WG1184455
2,2-Dichloropropane	U		0.000902	0.00285	1	10/22/2018 19:03	WG1184455
Di-isopropyl ether	U		0.000398	0.00114	1	10/22/2018 19:03	WG1184455
Ethylbenzene	U		0.000603	0.00285	1	10/22/2018 19:03	WG1184455
Hexachloro-1,3-butadiene	U		0.0145	0.0285	1	10/22/2018 19:03	WG1184455
2-Hexanone	U		0.0114	0.0285	1	10/22/2018 19:03	WG1184455
n-Hexane	U		0.00121	0.00569	1	10/22/2018 19:03	WG1184455
Iodomethane	U		0.00689	0.0142	1	10/22/2018 19:03	WG1184455
Isopropylbenzene	U		0.000982	0.00285	1	10/22/2018 19:03	WG1184455
p-Isopropyltoluene	U		0.00265	0.00569	1	10/22/2018 19:03	WG1184455
2-Butanone (MEK)	0.0289		0.0142	0.0285	1	10/22/2018 19:03	WG1184455
Methylene Chloride	U		0.00756	0.0285	1	10/22/2018 19:03	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0285	1	10/22/2018 19:03	WG1184455

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 08:07

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000336	0.00114	1	10/22/2018 19:03	WG1184455
Naphthalene	U		0.00355	0.0142	1	10/22/2018 19:03	WG1184455
n-Propylbenzene	U		0.00134	0.00569	1	10/22/2018 19:03	WG1184455
Styrene	U		0.00311	0.0142	1	10/22/2018 19:03	WG1184455
1,1,1,2-Tetrachloroethane	U	J4	0.000569	0.00285	1	10/22/2018 19:03	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000444	0.00285	1	10/23/2018 18:02	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000768	0.00285	1	10/22/2018 19:03	WG1184455
Tetrachloroethene	0.0321		0.000797	0.00285	1	10/22/2018 19:03	WG1184455
Toluene	U		0.00142	0.00569	1	10/22/2018 19:03	WG1184455
1,2,3-Trichlorobenzene	U		0.000711	0.00285	1	10/23/2018 18:02	WG1185221
1,2,4-Trichlorobenzene	U		0.00549	0.0142	1	10/22/2018 19:03	WG1184455
1,1,1-Trichloroethane	U		0.000313	0.00285	1	10/22/2018 19:03	WG1184455
1,1,2-Trichloroethane	U		0.00100	0.00285	1	10/22/2018 19:03	WG1184455
Trichloroethene	0.00106	J	0.000455	0.00114	1	10/22/2018 19:03	WG1184455
Trichlorofluoromethane	U		0.000569	0.00285	1	10/22/2018 19:03	WG1184455
1,2,3-Trichloropropane	U		0.00580	0.0142	1	10/22/2018 19:03	WG1184455
1,2,4-Trimethylbenzene	U		0.00132	0.00569	1	10/22/2018 19:03	WG1184455
1,2,3-Trimethylbenzene	U		0.00131	0.00569	1	10/22/2018 19:03	WG1184455
1,3,5-Trimethylbenzene	U		0.00123	0.00569	1	10/22/2018 19:03	WG1184455
Vinyl acetate	U		0.00401	0.0142	1	10/22/2018 19:03	WG1184455
Vinyl chloride	U		0.000777	0.00285	1	10/22/2018 19:03	WG1184455
Xylenes, Total	U		0.00544	0.00740	1	10/22/2018 19:03	WG1184455
(S) Toluene-d8	104			75.0-131		10/22/2018 19:03	WG1184455
(S) Toluene-d8	100			75.0-131		10/23/2018 18:02	WG1185221
(S) Dibromofluoromethane	91.8			65.0-129		10/22/2018 19:03	WG1184455
(S) Dibromofluoromethane	114			65.0-129		10/23/2018 18:02	WG1185221
(S) 4-Bromofluorobenzene	94.1			67.0-138		10/22/2018 19:03	WG1184455
(S) 4-Bromofluorobenzene	121			67.0-138		10/23/2018 18:02	WG1185221

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	10/24/2018 13:49	WG1185668

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0150	0.0273	1	10/23/2018 18:22	WG1185221
Acrylonitrile	U		0.00207	0.0136	1	10/22/2018 19:22	WG1184455
Benzene	U		0.000437	0.00109	1	10/22/2018 19:22	WG1184455
Bromobenzene	U		0.00115	0.0136	1	10/22/2018 19:22	WG1184455
Bromodichloromethane	U		0.000860	0.00273	1	10/22/2018 19:22	WG1184455
Bromochloromethane	U		0.00123	0.00546	1	10/22/2018 19:22	WG1184455
Bromoform	U		0.00653	0.0273	1	10/22/2018 19:22	WG1184455
Bromomethane	U		0.00404	0.0136	1	10/22/2018 19:22	WG1184455
n-Butylbenzene	U		0.00419	0.0136	1	10/22/2018 19:22	WG1184455
sec-Butylbenzene	U		0.00276	0.0136	1	10/22/2018 19:22	WG1184455
tert-Butylbenzene	U		0.00169	0.00546	1	10/22/2018 19:22	WG1184455
Carbon disulfide	0.00546	J	0.00443	0.0136	1	10/22/2018 19:22	WG1184455
Carbon tetrachloride	U		0.00118	0.00546	1	10/22/2018 19:22	WG1184455
Chlorobenzene	U		0.000625	0.00273	1	10/22/2018 19:22	WG1184455
Chlorodibromomethane	U		0.000491	0.00273	1	10/22/2018 19:22	WG1184455
Chloroethane	U		0.00118	0.00546	1	10/22/2018 19:22	WG1184455
Chloroform	U		0.000453	0.00273	1	10/22/2018 19:22	WG1184455
Chloromethane	U		0.00152	0.0136	1	10/22/2018 19:22	WG1184455
2-Chlorotoluene	U		0.00100	0.00273	1	10/22/2018 19:22	WG1184455
4-Chlorotoluene	U		0.00123	0.00546	1	10/22/2018 19:22	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00557	0.0273	1	10/22/2018 19:22	WG1184455
1,2-Dibromoethane	U		0.000573	0.00273	1	10/22/2018 19:22	WG1184455
Dibromomethane	U		0.00109	0.00546	1	10/22/2018 19:22	WG1184455
1,2-Dichlorobenzene	U		0.00158	0.00546	1	10/22/2018 19:22	WG1184455
1,3-Dichlorobenzene	U		0.00186	0.00546	1	10/22/2018 19:22	WG1184455
1,4-Dichlorobenzene	U		0.00215	0.00546	1	10/22/2018 19:22	WG1184455
Dichlorodifluoromethane	U		0.000893	0.00273	1	10/23/2018 18:22	WG1185221
1,1-Dichloroethane	U		0.000628	0.00273	1	10/22/2018 19:22	WG1184455
1,2-Dichloroethane	U		0.000519	0.00273	1	10/22/2018 19:22	WG1184455
1,1-Dichloroethene	U		0.000546	0.00273	1	10/22/2018 19:22	WG1184455
cis-1,2-Dichloroethene	0.0170		0.000753	0.00273	1	10/23/2018 18:22	WG1185221
trans-1,2-Dichloroethene	U		0.00156	0.00546	1	10/22/2018 19:22	WG1184455
1,2-Dichloropropane	U		0.00139	0.00546	1	10/22/2018 19:22	WG1184455
1,1-Dichloropropene	U		0.000764	0.00273	1	10/22/2018 19:22	WG1184455
1,3-Dichloropropane	U		0.00191	0.00546	1	10/22/2018 19:22	WG1184455
cis-1,3-Dichloropropene	U		0.000740	0.00273	1	10/22/2018 19:22	WG1184455
trans-1,3-Dichloropropene	U	J4	0.00167	0.00546	1	10/22/2018 19:22	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00153	0.00546	1	10/22/2018 19:22	WG1184455
2,2-Dichloropropane	U		0.000866	0.00273	1	10/22/2018 19:22	WG1184455
Di-isopropyl ether	U		0.000382	0.00109	1	10/22/2018 19:22	WG1184455
Ethylbenzene	U		0.000579	0.00273	1	10/22/2018 19:22	WG1184455
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	10/22/2018 19:22	WG1184455
2-Hexanone	U		0.0109	0.0273	1	10/22/2018 19:22	WG1184455
n-Hexane	U		0.00116	0.00546	1	10/22/2018 19:22	WG1184455
Iodomethane	U		0.00660	0.0136	1	10/22/2018 19:22	WG1184455
Isopropylbenzene	U		0.000942	0.00273	1	10/22/2018 19:22	WG1184455
p-Isopropyltoluene	U		0.00254	0.00546	1	10/22/2018 19:22	WG1184455
2-Butanone (MEK)	0.0228	J	0.0136	0.0273	1	10/22/2018 19:22	WG1184455
Methylene Chloride	U		0.00725	0.0273	1	10/22/2018 19:22	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	10/22/2018 19:22	WG1184455

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		0.000322	0.00109	1	10/22/2018 19:22	WG1184455
Naphthalene	U		0.00341	0.0136	1	10/22/2018 19:22	WG1184455
n-Propylbenzene	U		0.00129	0.00546	1	10/22/2018 19:22	WG1184455
Styrene	U		0.00298	0.0136	1	10/22/2018 19:22	WG1184455
1,1,1,2-Tetrachloroethane	U	J4	0.000546	0.00273	1	10/22/2018 19:22	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000426	0.00273	1	10/23/2018 18:22	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000737	0.00273	1	10/22/2018 19:22	WG1184455
Tetrachloroethene	0.0558		0.000764	0.00273	1	10/22/2018 19:22	WG1184455
Toluene	U		0.00136	0.00546	1	10/22/2018 19:22	WG1184455
1,2,3-Trichlorobenzene	U		0.000682	0.00273	1	10/23/2018 18:22	WG1185221
1,2,4-Trichlorobenzene	U		0.00526	0.0136	1	10/22/2018 19:22	WG1184455
1,1,1-Trichloroethane	U		0.000300	0.00273	1	10/22/2018 19:22	WG1184455
1,1,2-Trichloroethane	U		0.000964	0.00273	1	10/22/2018 19:22	WG1184455
Trichloroethene	0.00523		0.000437	0.00109	1	10/22/2018 19:22	WG1184455
Trichlorofluoromethane	U		0.000546	0.00273	1	10/22/2018 19:22	WG1184455
1,2,3-Trichloropropane	U		0.00557	0.0136	1	10/22/2018 19:22	WG1184455
1,2,4-Trimethylbenzene	U		0.00127	0.00546	1	10/22/2018 19:22	WG1184455
1,2,3-Trimethylbenzene	U		0.00126	0.00546	1	10/22/2018 19:22	WG1184455
1,3,5-Trimethylbenzene	U		0.00118	0.00546	1	10/22/2018 19:22	WG1184455
Vinyl acetate	U		0.00384	0.0136	1	10/22/2018 19:22	WG1184455
Vinyl chloride	U		0.000746	0.00273	1	10/22/2018 19:22	WG1184455
Xylenes, Total	U		0.00522	0.00710	1	10/22/2018 19:22	WG1184455
(S) Toluene-d8	103			75.0-131		10/22/2018 19:22	WG1184455
(S) Toluene-d8	97.5			75.0-131		10/23/2018 18:22	WG1185221
(S) Dibromofluoromethane	94.1			65.0-129		10/22/2018 19:22	WG1184455
(S) Dibromofluoromethane	112			65.0-129		10/23/2018 18:22	WG1185221
(S) 4-Bromofluorobenzene	92.3			67.0-138		10/22/2018 19:22	WG1184455
(S) 4-Bromofluorobenzene	120			67.0-138		10/23/2018 18:22	WG1185221

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	92.2		1	10/24/2018 13:49	WG1185668

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0149	0.0271	1	10/23/2018 18:42	WG1185221
Acrylonitrile	U		0.00206	0.0136	1	10/22/2018 19:40	WG1184455
Benzene	U		0.000434	0.00108	1	10/22/2018 19:40	WG1184455
Bromobenzene	U		0.00114	0.0136	1	10/22/2018 19:40	WG1184455
Bromodichloromethane	U		0.000855	0.00271	1	10/22/2018 19:40	WG1184455
Bromochloromethane	U		0.00123	0.00542	1	10/22/2018 19:40	WG1184455
Bromoform	U		0.00649	0.0271	1	10/22/2018 19:40	WG1184455
Bromomethane	U		0.00401	0.0136	1	10/22/2018 19:40	WG1184455
n-Butylbenzene	U		0.00417	0.0136	1	10/22/2018 19:40	WG1184455
sec-Butylbenzene	U		0.00274	0.0136	1	10/22/2018 19:40	WG1184455
tert-Butylbenzene	U		0.00168	0.00542	1	10/22/2018 19:40	WG1184455
Carbon disulfide	U		0.00440	0.0136	1	10/22/2018 19:40	WG1184455
Carbon tetrachloride	U		0.00117	0.00542	1	10/22/2018 19:40	WG1184455
Chlorobenzene	U		0.000622	0.00271	1	10/22/2018 19:40	WG1184455
Chlorodibromomethane	U		0.000488	0.00271	1	10/22/2018 19:40	WG1184455
Chloroethane	U		0.00117	0.00542	1	10/22/2018 19:40	WG1184455
Chloroform	U		0.000450	0.00271	1	10/22/2018 19:40	WG1184455
Chloromethane	U		0.00151	0.0136	1	10/22/2018 19:40	WG1184455
2-Chlorotoluene	U		0.000998	0.00271	1	10/22/2018 19:40	WG1184455
4-Chlorotoluene	U		0.00123	0.00542	1	10/22/2018 19:40	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00553	0.0271	1	10/22/2018 19:40	WG1184455
1,2-Dibromoethane	U		0.000570	0.00271	1	10/22/2018 19:40	WG1184455
Dibromomethane	U		0.00108	0.00542	1	10/22/2018 19:40	WG1184455
1,2-Dichlorobenzene	U		0.00157	0.00542	1	10/22/2018 19:40	WG1184455
1,3-Dichlorobenzene	U		0.00184	0.00542	1	10/22/2018 19:40	WG1184455
1,4-Dichlorobenzene	U		0.00214	0.00542	1	10/22/2018 19:40	WG1184455
Dichlorodifluoromethane	U		0.000887	0.00271	1	10/23/2018 18:42	WG1185221
1,1-Dichloroethane	U		0.000624	0.00271	1	10/22/2018 19:40	WG1184455
1,2-Dichloroethane	U		0.000515	0.00271	1	10/22/2018 19:40	WG1184455
1,1-Dichloroethene	U		0.000542	0.00271	1	10/22/2018 19:40	WG1184455
cis-1,2-Dichloroethene	0.0894		0.000749	0.00271	1	10/23/2018 18:42	WG1185221
trans-1,2-Dichloroethene	U		0.00155	0.00542	1	10/22/2018 19:40	WG1184455
1,2-Dichloropropane	U		0.00138	0.00542	1	10/22/2018 19:40	WG1184455
1,1-Dichloropropene	U		0.000759	0.00271	1	10/22/2018 19:40	WG1184455
1,3-Dichloropropane	U		0.00190	0.00542	1	10/22/2018 19:40	WG1184455
cis-1,3-Dichloropropene	U		0.000736	0.00271	1	10/22/2018 19:40	WG1184455
trans-1,3-Dichloropropene	U	J4	0.00166	0.00542	1	10/22/2018 19:40	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00152	0.00542	1	10/22/2018 19:40	WG1184455
2,2-Dichloropropane	U		0.000860	0.00271	1	10/22/2018 19:40	WG1184455
Di-isopropyl ether	U		0.000380	0.00108	1	10/22/2018 19:40	WG1184455
Ethylbenzene	U		0.000575	0.00271	1	10/22/2018 19:40	WG1184455
Hexachloro-1,3-butadiene	U		0.0138	0.0271	1	10/22/2018 19:40	WG1184455
2-Hexanone	U		0.0108	0.0271	1	10/22/2018 19:40	WG1184455
n-Hexane	U		0.00115	0.00542	1	10/22/2018 19:40	WG1184455
Iodomethane	U		0.00656	0.0136	1	10/22/2018 19:40	WG1184455
Isopropylbenzene	U		0.000936	0.00271	1	10/22/2018 19:40	WG1184455
p-Isopropyltoluene	U		0.00253	0.00542	1	10/22/2018 19:40	WG1184455
2-Butanone (MEK)	0.0287		0.0136	0.0271	1	10/22/2018 19:40	WG1184455
Methylene Chloride	U		0.00720	0.0271	1	10/22/2018 19:40	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0271	1	10/22/2018 19:40	WG1184455

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 08:24

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000320	0.00108	1	10/22/2018 19:40	WG1184455
Naphthalene	U		0.00338	0.0136	1	10/22/2018 19:40	WG1184455
n-Propylbenzene	U		0.00128	0.00542	1	10/22/2018 19:40	WG1184455
Styrene	U		0.00296	0.0136	1	10/22/2018 19:40	WG1184455
1,1,1,2-Tetrachloroethane	U	<u>J4</u>	0.000542	0.00271	1	10/22/2018 19:40	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000423	0.00271	1	10/23/2018 18:42	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000732	0.00271	1	10/22/2018 19:40	WG1184455
Tetrachloroethene	0.416		0.000759	0.00271	1	10/22/2018 19:40	WG1184455
Toluene	U		0.00136	0.00542	1	10/22/2018 19:40	WG1184455
1,2,3-Trichlorobenzene	U		0.000678	0.00271	1	10/23/2018 18:42	WG1185221
1,2,4-Trichlorobenzene	U		0.00523	0.0136	1	10/22/2018 19:40	WG1184455
1,1,1-Trichloroethane	U		0.000298	0.00271	1	10/22/2018 19:40	WG1184455
1,1,2-Trichloroethane	U		0.000958	0.00271	1	10/22/2018 19:40	WG1184455
Trichloroethene	0.0154		0.000434	0.00108	1	10/22/2018 19:40	WG1184455
Trichlorofluoromethane	U		0.000542	0.00271	1	10/22/2018 19:40	WG1184455
1,2,3-Trichloropropane	U		0.00553	0.0136	1	10/22/2018 19:40	WG1184455
1,2,4-Trimethylbenzene	U		0.00126	0.00542	1	10/22/2018 19:40	WG1184455
1,2,3-Trimethylbenzene	U		0.00125	0.00542	1	10/22/2018 19:40	WG1184455
1,3,5-Trimethylbenzene	U		0.00117	0.00542	1	10/22/2018 19:40	WG1184455
Vinyl acetate	U		0.00382	0.0136	1	10/22/2018 19:40	WG1184455
Vinyl chloride	0.00733		0.000741	0.00271	1	10/22/2018 19:40	WG1184455
Xylenes, Total	U		0.00519	0.00705	1	10/22/2018 19:40	WG1184455
(S) Toluene-d8	104			75.0-131		10/22/2018 19:40	WG1184455
(S) Toluene-d8	96.9			75.0-131		10/23/2018 18:42	WG1185221
(S) Dibromofluoromethane	93.1			65.0-129		10/22/2018 19:40	WG1184455
(S) Dibromofluoromethane	114			65.0-129		10/23/2018 18:42	WG1185221
(S) 4-Bromofluorobenzene	94.6			67.0-138		10/22/2018 19:40	WG1184455
(S) 4-Bromofluorobenzene	121			67.0-138		10/23/2018 18:42	WG1185221

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 09:20

L1036473

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.1		1	10/24/2018 13:49	WG1185668

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0149	0.0272	1	10/23/2018 19:02	WG1185221
Acrylonitrile	U		0.00206	0.0136	1	10/22/2018 19:58	WG1184455
Benzene	U		0.000434	0.00109	1	10/22/2018 19:58	WG1184455
Bromobenzene	U		0.00114	0.0136	1	10/22/2018 19:58	WG1184455
Bromodichloromethane	U		0.000856	0.00272	1	10/22/2018 19:58	WG1184455
Bromochloromethane	U		0.00123	0.00543	1	10/22/2018 19:58	WG1184455
Bromoform	U		0.00649	0.0272	1	10/22/2018 19:58	WG1184455
Bromomethane	U		0.00402	0.0136	1	10/22/2018 19:58	WG1184455
n-Butylbenzene	U		0.00417	0.0136	1	10/22/2018 19:58	WG1184455
sec-Butylbenzene	U		0.00275	0.0136	1	10/22/2018 19:58	WG1184455
tert-Butylbenzene	U		0.00168	0.00543	1	10/22/2018 19:58	WG1184455
Carbon disulfide	U		0.00441	0.0136	1	10/22/2018 19:58	WG1184455
Carbon tetrachloride	U		0.00117	0.00543	1	10/22/2018 19:58	WG1184455
Chlorobenzene	U		0.000622	0.00272	1	10/22/2018 19:58	WG1184455
Chlorodibromomethane	U		0.000489	0.00272	1	10/22/2018 19:58	WG1184455
Chloroethane	U		0.00117	0.00543	1	10/22/2018 19:58	WG1184455
Chloroform	U		0.000451	0.00272	1	10/22/2018 19:58	WG1184455
Chloromethane	U		0.00151	0.0136	1	10/22/2018 19:58	WG1184455
2-Chlorotoluene	U		0.000999	0.00272	1	10/22/2018 19:58	WG1184455
4-Chlorotoluene	U		0.00123	0.00543	1	10/22/2018 19:58	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00554	0.0272	1	10/22/2018 19:58	WG1184455
1,2-Dibromoethane	U		0.000570	0.00272	1	10/22/2018 19:58	WG1184455
Dibromomethane	U		0.00109	0.00543	1	10/22/2018 19:58	WG1184455
1,2-Dichlorobenzene	U		0.00157	0.00543	1	10/22/2018 19:58	WG1184455
1,3-Dichlorobenzene	U		0.00185	0.00543	1	10/22/2018 19:58	WG1184455
1,4-Dichlorobenzene	U		0.00214	0.00543	1	10/22/2018 19:58	WG1184455
Dichlorodifluoromethane	U		0.000888	0.00272	1	10/23/2018 19:02	WG1185221
1,1-Dichloroethane	U		0.000624	0.00272	1	10/22/2018 19:58	WG1184455
1,2-Dichloroethane	U		0.000516	0.00272	1	10/22/2018 19:58	WG1184455
1,1-Dichloroethene	U		0.000543	0.00272	1	10/22/2018 19:58	WG1184455
cis-1,2-Dichloroethene	U		0.000749	0.00272	1	10/22/2018 19:58	WG1184455
trans-1,2-Dichloroethene	U		0.00155	0.00543	1	10/22/2018 19:58	WG1184455
1,2-Dichloropropane	U		0.00138	0.00543	1	10/22/2018 19:58	WG1184455
1,1-Dichloropropene	U		0.000760	0.00272	1	10/22/2018 19:58	WG1184455
1,3-Dichloropropane	U		0.00190	0.00543	1	10/22/2018 19:58	WG1184455
cis-1,3-Dichloropropene	U		0.000736	0.00272	1	10/22/2018 19:58	WG1184455
trans-1,3-Dichloropropene	U	J4	0.00166	0.00543	1	10/22/2018 19:58	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00152	0.00543	1	10/22/2018 19:58	WG1184455
2,2-Dichloropropane	U		0.000861	0.00272	1	10/22/2018 19:58	WG1184455
Di-isopropyl ether	U		0.000380	0.00109	1	10/22/2018 19:58	WG1184455
Ethylbenzene	U		0.000576	0.00272	1	10/22/2018 19:58	WG1184455
Hexachloro-1,3-butadiene	U		0.0138	0.0272	1	10/22/2018 19:58	WG1184455
2-Hexanone	U		0.0109	0.0272	1	10/22/2018 19:58	WG1184455
n-Hexane	U		0.00115	0.00543	1	10/22/2018 19:58	WG1184455
Iodomethane	U		0.00657	0.0136	1	10/22/2018 19:58	WG1184455
Isopropylbenzene	U		0.000937	0.00272	1	10/22/2018 19:58	WG1184455
p-Isopropyltoluene	U		0.00253	0.00543	1	10/22/2018 19:58	WG1184455
2-Butanone (MEK)	U		0.0136	0.0272	1	10/22/2018 19:58	WG1184455
Methylene Chloride	U		0.00721	0.0272	1	10/22/2018 19:58	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0272	1	10/22/2018 19:58	WG1184455

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 09:20

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000320	0.00109	1	10/22/2018 19:58	WG1184455
Naphthalene	U		0.00339	0.0136	1	10/22/2018 19:58	WG1184455
n-Propylbenzene	U		0.00128	0.00543	1	10/22/2018 19:58	WG1184455
Styrene	U		0.00296	0.0136	1	10/22/2018 19:58	WG1184455
1,1,1,2-Tetrachloroethane	U	J4	0.000543	0.00272	1	10/22/2018 19:58	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000424	0.00272	1	10/23/2018 19:02	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000733	0.00272	1	10/22/2018 19:58	WG1184455
Tetrachloroethene	0.200		0.000760	0.00272	1	10/22/2018 19:58	WG1184455
Toluene	U		0.00136	0.00543	1	10/22/2018 19:58	WG1184455
1,2,3-Trichlorobenzene	U		0.000679	0.00272	1	10/23/2018 19:02	WG1185221
1,2,4-Trichlorobenzene	U		0.00523	0.0136	1	10/22/2018 19:58	WG1184455
1,1,1-Trichloroethane	U		0.000299	0.00272	1	10/22/2018 19:58	WG1184455
1,1,2-Trichloroethane	U		0.000959	0.00272	1	10/22/2018 19:58	WG1184455
Trichloroethene	0.00630		0.000434	0.00109	1	10/22/2018 19:58	WG1184455
Trichlorofluoromethane	U		0.000543	0.00272	1	10/22/2018 19:58	WG1184455
1,2,3-Trichloropropane	U		0.00554	0.0136	1	10/22/2018 19:58	WG1184455
1,2,4-Trimethylbenzene	U		0.00126	0.00543	1	10/22/2018 19:58	WG1184455
1,2,3-Trimethylbenzene	U		0.00125	0.00543	1	10/22/2018 19:58	WG1184455
1,3,5-Trimethylbenzene	U		0.00117	0.00543	1	10/22/2018 19:58	WG1184455
Vinyl acetate	U		0.00382	0.0136	1	10/22/2018 19:58	WG1184455
Vinyl chloride	U		0.000742	0.00272	1	10/22/2018 19:58	WG1184455
Xylenes, Total	U		0.00519	0.00706	1	10/22/2018 19:58	WG1184455
(S) Toluene-d8	107			75.0-131		10/22/2018 19:58	WG1184455
(S) Toluene-d8	99.6			75.0-131		10/23/2018 19:02	WG1185221
(S) Dibromofluoromethane	94.6			65.0-129		10/22/2018 19:58	WG1184455
(S) Dibromofluoromethane	115			65.0-129		10/23/2018 19:02	WG1185221
(S) 4-Bromofluorobenzene	95.2			67.0-138		10/22/2018 19:58	WG1184455
(S) 4-Bromofluorobenzene	118			67.0-138		10/23/2018 19:02	WG1185221

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	86.4		1	10/24/2018 13:49	WG1185668

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0159	0.0289	1	10/23/2018 19:22	WG1185221
Acrylonitrile	U		0.00220	0.0145	1	10/22/2018 20:17	WG1184455
Benzene	U		0.000463	0.00116	1	10/22/2018 20:17	WG1184455
Bromobenzene	U		0.00122	0.0145	1	10/22/2018 20:17	WG1184455
Bromodichloromethane	U		0.000912	0.00289	1	10/22/2018 20:17	WG1184455
Bromochloromethane	U		0.00131	0.00579	1	10/22/2018 20:17	WG1184455
Bromoform	U		0.00692	0.0289	1	10/22/2018 20:17	WG1184455
Bromomethane	U		0.00428	0.0145	1	10/22/2018 20:17	WG1184455
n-Butylbenzene	U		0.00444	0.0145	1	10/22/2018 20:17	WG1184455
sec-Butylbenzene	U		0.00293	0.0145	1	10/22/2018 20:17	WG1184455
tert-Butylbenzene	U		0.00179	0.00579	1	10/22/2018 20:17	WG1184455
Carbon disulfide	U		0.00470	0.0145	1	10/22/2018 20:17	WG1184455
Carbon tetrachloride	U		0.00125	0.00579	1	10/22/2018 20:17	WG1184455
Chlorobenzene	U		0.000663	0.00289	1	10/22/2018 20:17	WG1184455
Chlorodibromomethane	U		0.000521	0.00289	1	10/22/2018 20:17	WG1184455
Chloroethane	U		0.00125	0.00579	1	10/22/2018 20:17	WG1184455
Chloroform	U		0.000480	0.00289	1	10/22/2018 20:17	WG1184455
Chloromethane	U		0.00161	0.0145	1	10/22/2018 20:17	WG1184455
2-Chlorotoluene	U		0.00106	0.00289	1	10/22/2018 20:17	WG1184455
4-Chlorotoluene	U		0.00131	0.00579	1	10/22/2018 20:17	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00590	0.0289	1	10/22/2018 20:17	WG1184455
1,2-Dibromoethane	U		0.000608	0.00289	1	10/22/2018 20:17	WG1184455
Dibromomethane	U		0.00116	0.00579	1	10/22/2018 20:17	WG1184455
1,2-Dichlorobenzene	U		0.00168	0.00579	1	10/22/2018 20:17	WG1184455
1,3-Dichlorobenzene	U		0.00197	0.00579	1	10/22/2018 20:17	WG1184455
1,4-Dichlorobenzene	U		0.00228	0.00579	1	10/22/2018 20:17	WG1184455
Dichlorodifluoromethane	U		0.000947	0.00289	1	10/23/2018 19:22	WG1185221
1,1-Dichloroethane	U		0.000665	0.00289	1	10/22/2018 20:17	WG1184455
1,2-Dichloroethane	U		0.000550	0.00289	1	10/22/2018 20:17	WG1184455
1,1-Dichloroethene	U		0.000579	0.00289	1	10/22/2018 20:17	WG1184455
cis-1,2-Dichloroethene	U		0.000799	0.00289	1	10/22/2018 20:17	WG1184455
trans-1,2-Dichloroethene	U		0.00165	0.00579	1	10/22/2018 20:17	WG1184455
1,2-Dichloropropane	U		0.00147	0.00579	1	10/22/2018 20:17	WG1184455
1,1-Dichloropropene	U		0.000810	0.00289	1	10/22/2018 20:17	WG1184455
1,3-Dichloropropane	U		0.00203	0.00579	1	10/22/2018 20:17	WG1184455
cis-1,3-Dichloropropene	U		0.000785	0.00289	1	10/22/2018 20:17	WG1184455
trans-1,3-Dichloropropene	U	J4	0.00177	0.00579	1	10/22/2018 20:17	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00162	0.00579	1	10/22/2018 20:17	WG1184455
2,2-Dichloropropane	U		0.000918	0.00289	1	10/22/2018 20:17	WG1184455
Di-isopropyl ether	U		0.000405	0.00116	1	10/22/2018 20:17	WG1184455
Ethylbenzene	U		0.000613	0.00289	1	10/22/2018 20:17	WG1184455
Hexachloro-1,3-butadiene	U		0.0147	0.0289	1	10/22/2018 20:17	WG1184455
2-Hexanone	U		0.0116	0.0289	1	10/22/2018 20:17	WG1184455
n-Hexane	U		0.00123	0.00579	1	10/22/2018 20:17	WG1184455
Iodomethane	U		0.00700	0.0145	1	10/22/2018 20:17	WG1184455
Isopropylbenzene	U		0.000999	0.00289	1	10/22/2018 20:17	WG1184455
p-Isopropyltoluene	U		0.00270	0.00579	1	10/22/2018 20:17	WG1184455
2-Butanone (MEK)	0.0277	J	0.0145	0.0289	1	10/22/2018 20:17	WG1184455
Methylene Chloride	U		0.00768	0.0289	1	10/22/2018 20:17	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0289	1	10/22/2018 20:17	WG1184455

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 09:21

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000341	0.00116	1	10/22/2018 20:17	WG1184455
Naphthalene	U		0.00361	0.0145	1	10/22/2018 20:17	WG1184455
n-Propylbenzene	U		0.00137	0.00579	1	10/22/2018 20:17	WG1184455
Styrene	U		0.00316	0.0145	1	10/22/2018 20:17	WG1184455
1,1,1,2-Tetrachloroethane	U	J4	0.000579	0.00289	1	10/22/2018 20:17	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000451	0.00289	1	10/23/2018 19:22	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000781	0.00289	1	10/22/2018 20:17	WG1184455
Tetrachloroethene	0.0960		0.000810	0.00289	1	10/22/2018 20:17	WG1184455
Toluene	U		0.00145	0.00579	1	10/22/2018 20:17	WG1184455
1,2,3-Trichlorobenzene	U		0.000723	0.00289	1	10/23/2018 19:22	WG1185221
1,2,4-Trichlorobenzene	U		0.00558	0.0145	1	10/22/2018 20:17	WG1184455
1,1,1-Trichloroethane	U		0.000318	0.00289	1	10/22/2018 20:17	WG1184455
1,1,2-Trichloroethane	U		0.00102	0.00289	1	10/22/2018 20:17	WG1184455
Trichloroethene	0.00185		0.000463	0.00116	1	10/22/2018 20:17	WG1184455
Trichlorofluoromethane	U		0.000579	0.00289	1	10/22/2018 20:17	WG1184455
1,2,3-Trichloropropane	U		0.00590	0.0145	1	10/22/2018 20:17	WG1184455
1,2,4-Trimethylbenzene	U		0.00134	0.00579	1	10/22/2018 20:17	WG1184455
1,2,3-Trimethylbenzene	U		0.00133	0.00579	1	10/22/2018 20:17	WG1184455
1,3,5-Trimethylbenzene	U		0.00125	0.00579	1	10/22/2018 20:17	WG1184455
Vinyl acetate	U		0.00407	0.0145	1	10/22/2018 20:17	WG1184455
Vinyl chloride	U		0.000790	0.00289	1	10/22/2018 20:17	WG1184455
Xylenes, Total	U		0.00553	0.00752	1	10/22/2018 20:17	WG1184455
(S) Toluene-d8	103			75.0-131		10/22/2018 20:17	WG1184455
(S) Toluene-d8	100			75.0-131		10/23/2018 19:22	WG1185221
(S) Dibromofluoromethane	95.3			65.0-129		10/22/2018 20:17	WG1184455
(S) Dibromofluoromethane	115			65.0-129		10/23/2018 19:22	WG1185221
(S) 4-Bromofluorobenzene	93.4			67.0-138		10/22/2018 20:17	WG1184455
(S) 4-Bromofluorobenzene	121			67.0-138		10/23/2018 19:22	WG1185221

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	87.5		1	10/24/2018 13:49	WG1185668

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0157	0.0286	1	10/23/2018 19:42	WG1185221
Acrylonitrile	U		0.00217	0.0143	1	10/22/2018 20:35	WG1184455
Benzene	U		0.000457	0.00114	1	10/22/2018 20:35	WG1184455
Bromobenzene	U		0.00120	0.0143	1	10/22/2018 20:35	WG1184455
Bromodichloromethane	U		0.000901	0.00286	1	10/22/2018 20:35	WG1184455
Bromochloromethane	U		0.00129	0.00571	1	10/22/2018 20:35	WG1184455
Bromoform	U		0.00683	0.0286	1	10/22/2018 20:35	WG1184455
Bromomethane	U		0.00423	0.0143	1	10/22/2018 20:35	WG1184455
n-Butylbenzene	U		0.00439	0.0143	1	10/22/2018 20:35	WG1184455
sec-Butylbenzene	U		0.00289	0.0143	1	10/22/2018 20:35	WG1184455
tert-Butylbenzene	U		0.00177	0.00571	1	10/22/2018 20:35	WG1184455
Carbon disulfide	U		0.00464	0.0143	1	10/22/2018 20:35	WG1184455
Carbon tetrachloride	U		0.00123	0.00571	1	10/22/2018 20:35	WG1184455
Chlorobenzene	U		0.000655	0.00286	1	10/22/2018 20:35	WG1184455
Chlorodibromomethane	U		0.000514	0.00286	1	10/22/2018 20:35	WG1184455
Chloroethane	U		0.00123	0.00571	1	10/22/2018 20:35	WG1184455
Chloroform	0.00122	B J	0.000474	0.00286	1	10/22/2018 20:35	WG1184455
Chloromethane	U		0.00159	0.0143	1	10/22/2018 20:35	WG1184455
2-Chlorotoluene	U		0.00105	0.00286	1	10/22/2018 20:35	WG1184455
4-Chlorotoluene	U		0.00129	0.00571	1	10/22/2018 20:35	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00583	0.0286	1	10/22/2018 20:35	WG1184455
1,2-Dibromoethane	U		0.000600	0.00286	1	10/22/2018 20:35	WG1184455
Dibromomethane	U		0.00114	0.00571	1	10/22/2018 20:35	WG1184455
1,2-Dichlorobenzene	U		0.00166	0.00571	1	10/22/2018 20:35	WG1184455
1,3-Dichlorobenzene	U		0.00194	0.00571	1	10/22/2018 20:35	WG1184455
1,4-Dichlorobenzene	U		0.00225	0.00571	1	10/22/2018 20:35	WG1184455
Dichlorodifluoromethane	U		0.000935	0.00286	1	10/23/2018 19:42	WG1185221
1,1-Dichloroethane	U		0.000657	0.00286	1	10/22/2018 20:35	WG1184455
1,2-Dichloroethane	U		0.000543	0.00286	1	10/22/2018 20:35	WG1184455
1,1-Dichloroethene	U		0.000571	0.00286	1	10/22/2018 20:35	WG1184455
cis-1,2-Dichloroethene	U		0.000789	0.00286	1	10/22/2018 20:35	WG1184455
trans-1,2-Dichloroethene	U		0.00163	0.00571	1	10/22/2018 20:35	WG1184455
1,2-Dichloropropane	U		0.00145	0.00571	1	10/22/2018 20:35	WG1184455
1,1-Dichloropropene	U		0.000800	0.00286	1	10/22/2018 20:35	WG1184455
1,3-Dichloropropane	U		0.00200	0.00571	1	10/22/2018 20:35	WG1184455
cis-1,3-Dichloropropene	U		0.000775	0.00286	1	10/22/2018 20:35	WG1184455
trans-1,3-Dichloropropene	U	J4	0.00175	0.00571	1	10/22/2018 20:35	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00160	0.00571	1	10/22/2018 20:35	WG1184455
2,2-Dichloropropane	U		0.000906	0.00286	1	10/22/2018 20:35	WG1184455
Di-isopropyl ether	U		0.000400	0.00114	1	10/22/2018 20:35	WG1184455
Ethylbenzene	U		0.000606	0.00286	1	10/22/2018 20:35	WG1184455
Hexachloro-1,3-butadiene	U		0.0145	0.0286	1	10/22/2018 20:35	WG1184455
2-Hexanone	U		0.0114	0.0286	1	10/22/2018 20:35	WG1184455
n-Hexane	U		0.00121	0.00571	1	10/22/2018 20:35	WG1184455
Iodomethane	U		0.00691	0.0143	1	10/22/2018 20:35	WG1184455
Isopropylbenzene	U		0.000986	0.00286	1	10/22/2018 20:35	WG1184455
p-Isopropyltoluene	U		0.00266	0.00571	1	10/22/2018 20:35	WG1184455
2-Butanone (MEK)	U		0.0143	0.0286	1	10/22/2018 20:35	WG1184455
Methylene Chloride	U		0.00759	0.0286	1	10/22/2018 20:35	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0286	1	10/22/2018 20:35	WG1184455

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 09:25

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000337	0.00114	1	10/22/2018 20:35	WG1184455
Naphthalene	U		0.00357	0.0143	1	10/22/2018 20:35	WG1184455
n-Propylbenzene	U		0.00135	0.00571	1	10/22/2018 20:35	WG1184455
Styrene	U		0.00312	0.0143	1	10/22/2018 20:35	WG1184455
1,1,1,2-Tetrachloroethane	U	<u>J4</u>	0.000571	0.00286	1	10/22/2018 20:35	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000446	0.00286	1	10/23/2018 19:42	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000771	0.00286	1	10/22/2018 20:35	WG1184455
Tetrachloroethene	0.415		0.000800	0.00286	1	10/22/2018 20:35	WG1184455
Toluene	U		0.00143	0.00571	1	10/22/2018 20:35	WG1184455
1,2,3-Trichlorobenzene	U		0.000714	0.00286	1	10/23/2018 19:42	WG1185221
1,2,4-Trichlorobenzene	U		0.00551	0.0143	1	10/22/2018 20:35	WG1184455
1,1,1-Trichloroethane	U		0.000314	0.00286	1	10/22/2018 20:35	WG1184455
1,1,2-Trichloroethane	U		0.00101	0.00286	1	10/22/2018 20:35	WG1184455
Trichloroethene	0.00376		0.000457	0.00114	1	10/22/2018 20:35	WG1184455
Trichlorofluoromethane	U		0.000571	0.00286	1	10/22/2018 20:35	WG1184455
1,2,3-Trichloropropane	U		0.00583	0.0143	1	10/22/2018 20:35	WG1184455
1,2,4-Trimethylbenzene	U		0.00133	0.00571	1	10/22/2018 20:35	WG1184455
1,2,3-Trimethylbenzene	U		0.00131	0.00571	1	10/22/2018 20:35	WG1184455
1,3,5-Trimethylbenzene	U		0.00123	0.00571	1	10/22/2018 20:35	WG1184455
Vinyl acetate	U		0.00402	0.0143	1	10/22/2018 20:35	WG1184455
Vinyl chloride	U		0.000781	0.00286	1	10/22/2018 20:35	WG1184455
Xylenes, Total	U		0.00546	0.00743	1	10/22/2018 20:35	WG1184455
(S) Toluene-d8	105			75.0-131		10/22/2018 20:35	WG1184455
(S) Toluene-d8	98.5			75.0-131		10/23/2018 19:42	WG1185221
(S) Dibromofluoromethane	94.0			65.0-129		10/22/2018 20:35	WG1184455
(S) Dibromofluoromethane	116			65.0-129		10/23/2018 19:42	WG1185221
(S) 4-Bromofluorobenzene	94.0			67.0-138		10/22/2018 20:35	WG1184455
(S) 4-Bromofluorobenzene	120			67.0-138		10/23/2018 19:42	WG1185221

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.8		1	10/24/2018 13:49	WG1185668

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0151	0.0275	1	10/23/2018 20:02	WG1185221
Acrylonitrile	U		0.00209	0.0138	1	10/22/2018 20:54	WG1184455
Benzene	U		0.000441	0.00110	1	10/22/2018 20:54	WG1184455
Bromobenzene	U		0.00116	0.0138	1	10/22/2018 20:54	WG1184455
Bromodichloromethane	U		0.000868	0.00275	1	10/22/2018 20:54	WG1184455
Bromochloromethane	U		0.00124	0.00551	1	10/22/2018 20:54	WG1184455
Bromoform	U		0.00659	0.0275	1	10/22/2018 20:54	WG1184455
Bromomethane	U		0.00408	0.0138	1	10/22/2018 20:54	WG1184455
n-Butylbenzene	U		0.00423	0.0138	1	10/22/2018 20:54	WG1184455
sec-Butylbenzene	U		0.00279	0.0138	1	10/22/2018 20:54	WG1184455
tert-Butylbenzene	U		0.00171	0.00551	1	10/22/2018 20:54	WG1184455
Carbon disulfide	U		0.00447	0.0138	1	10/22/2018 20:54	WG1184455
Carbon tetrachloride	U		0.00119	0.00551	1	10/22/2018 20:54	WG1184455
Chlorobenzene	U		0.000631	0.00275	1	10/22/2018 20:54	WG1184455
Chlorodibromomethane	U		0.000496	0.00275	1	10/22/2018 20:54	WG1184455
Chloroethane	U		0.00119	0.00551	1	10/22/2018 20:54	WG1184455
Chloroform	U		0.000457	0.00275	1	10/22/2018 20:54	WG1184455
Chloromethane	U		0.00153	0.0138	1	10/22/2018 20:54	WG1184455
2-Chlorotoluene	U		0.00101	0.00275	1	10/22/2018 20:54	WG1184455
4-Chlorotoluene	U		0.00124	0.00551	1	10/22/2018 20:54	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00562	0.0275	1	10/22/2018 20:54	WG1184455
1,2-Dibromoethane	U		0.000578	0.00275	1	10/22/2018 20:54	WG1184455
Dibromomethane	U		0.00110	0.00551	1	10/22/2018 20:54	WG1184455
1,2-Dichlorobenzene	U		0.00160	0.00551	1	10/22/2018 20:54	WG1184455
1,3-Dichlorobenzene	U		0.00187	0.00551	1	10/22/2018 20:54	WG1184455
1,4-Dichlorobenzene	U		0.00217	0.00551	1	10/22/2018 20:54	WG1184455
Dichlorodifluoromethane	U		0.000901	0.00275	1	10/23/2018 20:02	WG1185221
1,1-Dichloroethane	U		0.000633	0.00275	1	10/22/2018 20:54	WG1184455
1,2-Dichloroethane	U		0.000523	0.00275	1	10/22/2018 20:54	WG1184455
1,1-Dichloroethene	U		0.000551	0.00275	1	10/22/2018 20:54	WG1184455
cis-1,2-Dichloroethene	U		0.000760	0.00275	1	10/22/2018 20:54	WG1184455
trans-1,2-Dichloroethene	U		0.00158	0.00551	1	10/22/2018 20:54	WG1184455
1,2-Dichloropropane	U		0.00140	0.00551	1	10/22/2018 20:54	WG1184455
1,1-Dichloropropene	U		0.000771	0.00275	1	10/22/2018 20:54	WG1184455
1,3-Dichloropropane	U		0.00193	0.00551	1	10/22/2018 20:54	WG1184455
cis-1,3-Dichloropropene	U		0.000747	0.00275	1	10/22/2018 20:54	WG1184455
trans-1,3-Dichloropropene	U	J4	0.00169	0.00551	1	10/22/2018 20:54	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00154	0.00551	1	10/22/2018 20:54	WG1184455
2,2-Dichloropropane	U		0.000874	0.00275	1	10/22/2018 20:54	WG1184455
Di-isopropyl ether	U		0.000386	0.00110	1	10/22/2018 20:54	WG1184455
Ethylbenzene	U		0.000584	0.00275	1	10/22/2018 20:54	WG1184455
Hexachloro-1,3-butadiene	U		0.0140	0.0275	1	10/22/2018 20:54	WG1184455
2-Hexanone	U		0.0110	0.0275	1	10/22/2018 20:54	WG1184455
n-Hexane	U		0.00117	0.00551	1	10/23/2018 20:02	WG1185221
Iodomethane	U		0.00667	0.0138	1	10/22/2018 20:54	WG1184455
Isopropylbenzene	U		0.000951	0.00275	1	10/22/2018 20:54	WG1184455
p-Isopropyltoluene	U		0.00257	0.00551	1	10/22/2018 20:54	WG1184455
2-Butanone (MEK)	0.0274	J	0.0138	0.0275	1	10/22/2018 20:54	WG1184455
Methylene Chloride	U		0.00732	0.0275	1	10/22/2018 20:54	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0275	1	10/22/2018 20:54	WG1184455

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 09:26

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000325	0.00110	1	10/22/2018 20:54	WG1184455
Naphthalene	U		0.00344	0.0138	1	10/22/2018 20:54	WG1184455
n-Propylbenzene	U		0.00130	0.00551	1	10/22/2018 20:54	WG1184455
Styrene	U		0.00301	0.0138	1	10/22/2018 20:54	WG1184455
1,1,1,2-Tetrachloroethane	U	J4	0.000551	0.00275	1	10/22/2018 20:54	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000430	0.00275	1	10/23/2018 20:02	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000744	0.00275	1	10/22/2018 20:54	WG1184455
Tetrachloroethene	1.29		0.000771	0.00275	1	10/22/2018 20:54	WG1184455
Toluene	U		0.00138	0.00551	1	10/22/2018 20:54	WG1184455
1,2,3-Trichlorobenzene	U		0.000689	0.00275	1	10/23/2018 20:02	WG1185221
1,2,4-Trichlorobenzene	U		0.00531	0.0138	1	10/22/2018 20:54	WG1184455
1,1,1-Trichloroethane	U		0.000303	0.00275	1	10/22/2018 20:54	WG1184455
1,1,2-Trichloroethane	U		0.000973	0.00275	1	10/22/2018 20:54	WG1184455
Trichloroethene	0.00533		0.000441	0.00110	1	10/22/2018 20:54	WG1184455
Trichlorofluoromethane	U		0.000551	0.00275	1	10/22/2018 20:54	WG1184455
1,2,3-Trichloropropane	U		0.00562	0.0138	1	10/22/2018 20:54	WG1184455
1,2,4-Trimethylbenzene	U		0.00128	0.00551	1	10/22/2018 20:54	WG1184455
1,2,3-Trimethylbenzene	U		0.00127	0.00551	1	10/22/2018 20:54	WG1184455
1,3,5-Trimethylbenzene	U		0.00119	0.00551	1	10/22/2018 20:54	WG1184455
Vinyl acetate	U		0.00388	0.0138	1	10/22/2018 20:54	WG1184455
Vinyl chloride	U		0.000752	0.00275	1	10/22/2018 20:54	WG1184455
Xylenes, Total	U		0.00527	0.00716	1	10/22/2018 20:54	WG1184455
(S) Toluene-d8	105			75.0-131		10/22/2018 20:54	WG1184455
(S) Toluene-d8	98.9			75.0-131		10/23/2018 20:02	WG1185221
(S) Dibromofluoromethane	94.7			65.0-129		10/22/2018 20:54	WG1184455
(S) Dibromofluoromethane	113			65.0-129		10/23/2018 20:02	WG1185221
(S) 4-Bromofluorobenzene	93.5			67.0-138		10/22/2018 20:54	WG1184455
(S) 4-Bromofluorobenzene	119			67.0-138		10/23/2018 20:02	WG1185221

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 09:42

L1036473

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.0		1	10/24/2018 13:49	WG1185668

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0159	0.0291	1	10/23/2018 20:22	WG1185221
Acrylonitrile	U		0.00221	0.0145	1	10/22/2018 21:12	WG1184455
Benzene	U		0.000465	0.00116	1	10/22/2018 21:12	WG1184455
Bromobenzene	U		0.00122	0.0145	1	10/22/2018 21:12	WG1184455
Bromodichloromethane	U		0.000917	0.00291	1	10/22/2018 21:12	WG1184455
Bromochloromethane	U		0.00131	0.00582	1	10/22/2018 21:12	WG1184455
Bromoform	U		0.00696	0.0291	1	10/22/2018 21:12	WG1184455
Bromomethane	U		0.00430	0.0145	1	10/22/2018 21:12	WG1184455
n-Butylbenzene	U		0.00447	0.0145	1	10/22/2018 21:12	WG1184455
sec-Butylbenzene	U		0.00294	0.0145	1	10/22/2018 21:12	WG1184455
tert-Butylbenzene	U		0.00180	0.00582	1	10/22/2018 21:12	WG1184455
Carbon disulfide	U		0.00472	0.0145	1	10/22/2018 21:12	WG1184455
Carbon tetrachloride	U		0.00126	0.00582	1	10/22/2018 21:12	WG1184455
Chlorobenzene	U		0.000667	0.00291	1	10/22/2018 21:12	WG1184455
Chlorodibromomethane	U		0.000524	0.00291	1	10/22/2018 21:12	WG1184455
Chloroethane	U		0.00126	0.00582	1	10/22/2018 21:12	WG1184455
Chloroform	0.00152	B J	0.000483	0.00291	1	10/22/2018 21:12	WG1184455
Chloromethane	U		0.00162	0.0145	1	10/22/2018 21:12	WG1184455
2-Chlorotoluene	U		0.00107	0.00291	1	10/22/2018 21:12	WG1184455
4-Chlorotoluene	U		0.00131	0.00582	1	10/22/2018 21:12	WG1184455
1,2-Dibromo-3-Chloropropane	U		0.00593	0.0291	1	10/22/2018 21:12	WG1184455
1,2-Dibromoethane	U		0.000611	0.00291	1	10/22/2018 21:12	WG1184455
Dibromomethane	U		0.00116	0.00582	1	10/22/2018 21:12	WG1184455
1,2-Dichlorobenzene	U		0.00169	0.00582	1	10/22/2018 21:12	WG1184455
1,3-Dichlorobenzene	U		0.00198	0.00582	1	10/22/2018 21:12	WG1184455
1,4-Dichlorobenzene	U		0.00229	0.00582	1	10/22/2018 21:12	WG1184455
Dichlorodifluoromethane	U		0.000952	0.00291	1	10/23/2018 20:22	WG1185221
1,1-Dichloroethane	U		0.000669	0.00291	1	10/22/2018 21:12	WG1184455
1,2-Dichloroethane	U		0.000553	0.00291	1	10/22/2018 21:12	WG1184455
1,1-Dichloroethene	U		0.000582	0.00291	1	10/22/2018 21:12	WG1184455
cis-1,2-Dichloroethene	0.000940	J	0.000803	0.00291	1	10/23/2018 20:22	WG1185221
trans-1,2-Dichloroethene	U		0.00166	0.00582	1	10/22/2018 21:12	WG1184455
1,2-Dichloropropane	U		0.00148	0.00582	1	10/22/2018 21:12	WG1184455
1,1-Dichloropropene	U		0.000814	0.00291	1	10/22/2018 21:12	WG1184455
1,3-Dichloropropane	U		0.00204	0.00582	1	10/22/2018 21:12	WG1184455
cis-1,3-Dichloropropene	U		0.000789	0.00291	1	10/22/2018 21:12	WG1184455
trans-1,3-Dichloropropene	U	J4	0.00178	0.00582	1	10/22/2018 21:12	WG1184455
trans-1,4-Dichloro-2-butene	U		0.00163	0.00582	1	10/22/2018 21:12	WG1184455
2,2-Dichloropropane	U		0.000923	0.00291	1	10/22/2018 21:12	WG1184455
Di-isopropyl ether	U		0.000407	0.00116	1	10/22/2018 21:12	WG1184455
Ethylbenzene	U		0.000617	0.00291	1	10/22/2018 21:12	WG1184455
Hexachloro-1,3-butadiene	U		0.0148	0.0291	1	10/22/2018 21:12	WG1184455
2-Hexanone	U		0.0116	0.0291	1	10/22/2018 21:12	WG1184455
n-Hexane	U		0.00123	0.00582	1	10/23/2018 20:22	WG1185221
Iodomethane	U		0.00704	0.0145	1	10/22/2018 21:12	WG1184455
Isopropylbenzene	U		0.00100	0.00291	1	10/22/2018 21:12	WG1184455
p-Isopropyltoluene	U		0.00271	0.00582	1	10/22/2018 21:12	WG1184455
2-Butanone (MEK)	0.0402		0.0145	0.0291	1	10/22/2018 21:12	WG1184455
Methylene Chloride	U		0.00773	0.0291	1	10/22/2018 21:12	WG1184455
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0291	1	10/22/2018 21:12	WG1184455

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 09:42

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000343	0.00116	1	10/22/2018 21:12	WG1184455
Naphthalene	U		0.00363	0.0145	1	10/22/2018 21:12	WG1184455
n-Propylbenzene	U		0.00137	0.00582	1	10/22/2018 21:12	WG1184455
Styrene	U		0.00318	0.0145	1	10/22/2018 21:12	WG1184455
1,1,1,2-Tetrachloroethane	U	J4	0.000582	0.00291	1	10/22/2018 21:12	WG1184455
1,1,2,2-Tetrachloroethane	U		0.000454	0.00291	1	10/23/2018 20:22	WG1185221
1,1,2-Trichlorotrifluoroethane	U		0.000785	0.00291	1	10/22/2018 21:12	WG1184455
Tetrachloroethene	0.663		0.000814	0.00291	1	10/22/2018 21:12	WG1184455
Toluene	U		0.00145	0.00582	1	10/22/2018 21:12	WG1184455
1,2,3-Trichlorobenzene	U		0.000727	0.00291	1	10/23/2018 20:22	WG1185221
1,2,4-Trichlorobenzene	U		0.00561	0.0145	1	10/22/2018 21:12	WG1184455
1,1,1-Trichloroethane	U		0.000320	0.00291	1	10/22/2018 21:12	WG1184455
1,1,2-Trichloroethane	U		0.00103	0.00291	1	10/22/2018 21:12	WG1184455
Trichloroethene	0.00852		0.000465	0.00116	1	10/22/2018 21:12	WG1184455
Trichlorofluoromethane	U		0.000582	0.00291	1	10/22/2018 21:12	WG1184455
1,2,3-Trichloropropane	U		0.00593	0.0145	1	10/22/2018 21:12	WG1184455
1,2,4-Trimethylbenzene	U		0.00135	0.00582	1	10/22/2018 21:12	WG1184455
1,2,3-Trimethylbenzene	U		0.00134	0.00582	1	10/22/2018 21:12	WG1184455
1,3,5-Trimethylbenzene	U		0.00126	0.00582	1	10/22/2018 21:12	WG1184455
Vinyl acetate	U		0.00410	0.0145	1	10/22/2018 21:12	WG1184455
Vinyl chloride	0.00303		0.000795	0.00291	1	10/22/2018 21:12	WG1184455
Xylenes, Total	U		0.00556	0.00756	1	10/22/2018 21:12	WG1184455
(S) Toluene-d8	105			75.0-131		10/22/2018 21:12	WG1184455
(S) Toluene-d8	99.2			75.0-131		10/23/2018 20:22	WG1185221
(S) Dibromofluoromethane	94.0			65.0-129		10/22/2018 21:12	WG1184455
(S) Dibromofluoromethane	114			65.0-129		10/23/2018 20:22	WG1185221
(S) 4-Bromofluorobenzene	94.5			67.0-138		10/22/2018 21:12	WG1184455
(S) 4-Bromofluorobenzene	121			67.0-138		10/23/2018 20:22	WG1185221

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	89.1		1	10/24/2018 13:49	WG1185668

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0154	0.0281	1	10/24/2018 13:12	WG1185319
Acrylonitrile	U		0.00213	0.0140	1	10/22/2018 18:41	WG1184727
Benzene	0.00115		0.000449	0.00112	1	10/22/2018 18:41	WG1184727
Bromobenzene	U		0.00118	0.0140	1	10/22/2018 18:41	WG1184727
Bromodichloromethane	U		0.000885	0.00281	1	10/22/2018 18:41	WG1184727
Bromochloromethane	U		0.00127	0.00561	1	10/22/2018 18:41	WG1184727
Bromoform	U		0.00671	0.0281	1	10/22/2018 18:41	WG1184727
Bromomethane	U		0.00415	0.0140	1	10/22/2018 18:41	WG1184727
n-Butylbenzene	U		0.00431	0.0140	1	10/22/2018 18:41	WG1184727
sec-Butylbenzene	U		0.00284	0.0140	1	10/22/2018 18:41	WG1184727
tert-Butylbenzene	U		0.00174	0.00561	1	10/22/2018 18:41	WG1184727
Carbon disulfide	U		0.00456	0.0140	1	10/22/2018 18:41	WG1184727
Carbon tetrachloride	U		0.00121	0.00561	1	10/22/2018 18:41	WG1184727
Chlorobenzene	U		0.000643	0.00281	1	10/22/2018 18:41	WG1184727
Chlorodibromomethane	U		0.000505	0.00281	1	10/22/2018 18:41	WG1184727
Chloroethane	U		0.00121	0.00561	1	10/22/2018 18:41	WG1184727
Chloroform	0.00127	B J	0.000466	0.00281	1	10/22/2018 18:41	WG1184727
Chloromethane	U		0.00156	0.0140	1	10/22/2018 18:41	WG1184727
2-Chlorotoluene	U		0.00103	0.00281	1	10/22/2018 18:41	WG1184727
4-Chlorotoluene	U		0.00127	0.00561	1	10/22/2018 18:41	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00573	0.0281	1	10/22/2018 18:41	WG1184727
1,2-Dibromoethane	U		0.000589	0.00281	1	10/22/2018 18:41	WG1184727
Dibromomethane	U		0.00112	0.00561	1	10/22/2018 18:41	WG1184727
1,2-Dichlorobenzene	U		0.00163	0.00561	1	10/22/2018 18:41	WG1184727
1,3-Dichlorobenzene	U		0.00191	0.00561	1	10/22/2018 18:41	WG1184727
1,4-Dichlorobenzene	U		0.00221	0.00561	1	10/22/2018 18:41	WG1184727
Dichlorodifluoromethane	U		0.000918	0.00281	1	10/22/2018 18:41	WG1184727
1,1-Dichloroethane	U		0.000645	0.00281	1	10/22/2018 18:41	WG1184727
1,2-Dichloroethane	U		0.000533	0.00281	1	10/22/2018 18:41	WG1184727
1,1-Dichloroethene	U		0.000561	0.00281	1	10/22/2018 18:41	WG1184727
cis-1,2-Dichloroethene	0.00250	J	0.000775	0.00281	1	10/22/2018 18:41	WG1184727
trans-1,2-Dichloroethene	U		0.00161	0.00561	1	10/22/2018 18:41	WG1184727
1,2-Dichloropropane	U		0.00143	0.00561	1	10/24/2018 13:12	WG1185319
1,1-Dichloropropene	U		0.000786	0.00281	1	10/22/2018 18:41	WG1184727
1,3-Dichloropropane	U		0.00196	0.00561	1	10/22/2018 18:41	WG1184727
cis-1,3-Dichloropropene	U		0.000761	0.00281	1	10/22/2018 18:41	WG1184727
trans-1,3-Dichloropropene	U		0.00172	0.00561	1	10/22/2018 18:41	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00157	0.00561	1	10/22/2018 18:41	WG1184727
2,2-Dichloropropane	U		0.000890	0.00281	1	10/22/2018 18:41	WG1184727
Di-isopropyl ether	U		0.000393	0.00112	1	10/22/2018 18:41	WG1184727
Ethylbenzene	U		0.000595	0.00281	1	10/22/2018 18:41	WG1184727
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	10/22/2018 18:41	WG1184727
2-Hexanone	U		0.0112	0.0281	1	10/22/2018 18:41	WG1184727
n-Hexane	U		0.00119	0.00561	1	10/24/2018 13:12	WG1185319
Iodomethane	U		0.00679	0.0140	1	10/22/2018 18:41	WG1184727
Isopropylbenzene	U		0.000969	0.00281	1	10/22/2018 18:41	WG1184727
p-Isopropyltoluene	U		0.00262	0.00561	1	10/22/2018 18:41	WG1184727
2-Butanone (MEK)	0.0297		0.0140	0.0281	1	10/24/2018 13:12	WG1185319
Methylene Chloride	U		0.00745	0.0281	1	10/22/2018 18:41	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	10/22/2018 18:41	WG1184727

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 09:58

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000331	0.00112	1	10/22/2018 18:41	WG1184727
Naphthalene	U		0.00350	0.0140	1	10/22/2018 18:41	WG1184727
n-Propylbenzene	U		0.00132	0.00561	1	10/22/2018 18:41	WG1184727
Styrene	U		0.00306	0.0140	1	10/22/2018 18:41	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000561	0.00281	1	10/22/2018 18:41	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000438	0.00281	1	10/22/2018 18:41	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000758	0.00281	1	10/22/2018 18:41	WG1184727
Tetrachloroethene	0.199		0.000786	0.00281	1	10/22/2018 18:41	WG1184727
Toluene	0.00291	J	0.00140	0.00561	1	10/22/2018 18:41	WG1184727
1,2,3-Trichlorobenzene	U		0.000702	0.00281	1	10/22/2018 18:41	WG1184727
1,2,4-Trichlorobenzene	U		0.00541	0.0140	1	10/22/2018 18:41	WG1184727
1,1,1-Trichloroethane	U		0.000309	0.00281	1	10/22/2018 18:41	WG1184727
1,1,2-Trichloroethane	U		0.000991	0.00281	1	10/24/2018 13:12	WG1185319
Trichloroethene	0.00250		0.000449	0.00112	1	10/22/2018 18:41	WG1184727
Trichlorofluoromethane	U		0.000561	0.00281	1	10/22/2018 18:41	WG1184727
1,2,3-Trichloropropane	U		0.00573	0.0140	1	10/22/2018 18:41	WG1184727
1,2,4-Trimethylbenzene	U		0.00130	0.00561	1	10/22/2018 18:41	WG1184727
1,2,3-Trimethylbenzene	U		0.00129	0.00561	1	10/22/2018 18:41	WG1184727
1,3,5-Trimethylbenzene	U		0.00121	0.00561	1	10/22/2018 18:41	WG1184727
Vinyl acetate	U		0.00395	0.0140	1	10/22/2018 18:41	WG1184727
Vinyl chloride	U		0.000767	0.00281	1	10/22/2018 18:41	WG1184727
Xylenes, Total	U		0.00537	0.00730	1	10/22/2018 18:41	WG1184727
(S) Toluene-d8	123			75.0-131		10/22/2018 18:41	WG1184727
(S) Toluene-d8	97.1			75.0-131		10/24/2018 13:12	WG1185319
(S) Dibromofluoromethane	92.5			65.0-129		10/22/2018 18:41	WG1184727
(S) Dibromofluoromethane	115			65.0-129		10/24/2018 13:12	WG1185319
(S) 4-Bromofluorobenzene	86.2			67.0-138		10/22/2018 18:41	WG1184727
(S) 4-Bromofluorobenzene	122			67.0-138		10/24/2018 13:12	WG1185319

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	83.8		1	10/24/2018 13:49	WG1185668

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0163	0.0298	1	10/24/2018 13:31	WG1185319
Acrylonitrile	U		0.00227	0.0149	1	10/22/2018 19:02	WG1184727
Benzene	U		0.000477	0.00119	1	10/22/2018 19:02	WG1184727
Bromobenzene	U		0.00125	0.0149	1	10/22/2018 19:02	WG1184727
Bromodichloromethane	U		0.000940	0.00298	1	10/22/2018 19:02	WG1184727
Bromochloromethane	U		0.00135	0.00597	1	10/22/2018 19:02	WG1184727
Bromoform	U		0.00714	0.0298	1	10/22/2018 19:02	WG1184727
Bromomethane	U		0.00442	0.0149	1	10/22/2018 19:02	WG1184727
n-Butylbenzene	U		0.00458	0.0149	1	10/22/2018 19:02	WG1184727
sec-Butylbenzene	U		0.00302	0.0149	1	10/22/2018 19:02	WG1184727
tert-Butylbenzene	U		0.00185	0.00597	1	10/22/2018 19:02	WG1184727
Carbon disulfide	U		0.00485	0.0149	1	10/22/2018 19:02	WG1184727
Carbon tetrachloride	U		0.00129	0.00597	1	10/22/2018 19:02	WG1184727
Chlorobenzene	U		0.000684	0.00298	1	10/22/2018 19:02	WG1184727
Chlorodibromomethane	U		0.000537	0.00298	1	10/22/2018 19:02	WG1184727
Chloroethane	U		0.00129	0.00597	1	10/22/2018 19:02	WG1184727
Chloroform	0.00162	B J	0.000495	0.00298	1	10/22/2018 19:02	WG1184727
Chloromethane	U		0.00166	0.0149	1	10/22/2018 19:02	WG1184727
2-Chlorotoluene	U		0.00110	0.00298	1	10/22/2018 19:02	WG1184727
4-Chlorotoluene	U		0.00135	0.00597	1	10/22/2018 19:02	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00609	0.0298	1	10/22/2018 19:02	WG1184727
1,2-Dibromoethane	U		0.000627	0.00298	1	10/22/2018 19:02	WG1184727
Dibromomethane	U		0.00119	0.00597	1	10/22/2018 19:02	WG1184727
1,2-Dichlorobenzene	U		0.00173	0.00597	1	10/22/2018 19:02	WG1184727
1,3-Dichlorobenzene	U		0.00203	0.00597	1	10/22/2018 19:02	WG1184727
1,4-Dichlorobenzene	U		0.00235	0.00597	1	10/22/2018 19:02	WG1184727
Dichlorodifluoromethane	U		0.000976	0.00298	1	10/22/2018 19:02	WG1184727
1,1-Dichloroethane	U		0.000686	0.00298	1	10/22/2018 19:02	WG1184727
1,2-Dichloroethane	U		0.000567	0.00298	1	10/22/2018 19:02	WG1184727
1,1-Dichloroethene	U		0.000597	0.00298	1	10/22/2018 19:02	WG1184727
cis-1,2-Dichloroethene	0.00118	J	0.000823	0.00298	1	10/22/2018 19:02	WG1184727
trans-1,2-Dichloroethene	U		0.00171	0.00597	1	10/22/2018 19:02	WG1184727
1,2-Dichloropropane	U		0.00152	0.00597	1	10/24/2018 13:31	WG1185319
1,1-Dichloropropene	U		0.000835	0.00298	1	10/22/2018 19:02	WG1184727
1,3-Dichloropropane	U		0.00209	0.00597	1	10/22/2018 19:02	WG1184727
cis-1,3-Dichloropropene	U		0.000809	0.00298	1	10/22/2018 19:02	WG1184727
trans-1,3-Dichloropropene	U		0.00183	0.00597	1	10/22/2018 19:02	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00167	0.00597	1	10/22/2018 19:02	WG1184727
2,2-Dichloropropane	U		0.000946	0.00298	1	10/22/2018 19:02	WG1184727
Di-isopropyl ether	U		0.000418	0.00119	1	10/22/2018 19:02	WG1184727
Ethylbenzene	U		0.000632	0.00298	1	10/22/2018 19:02	WG1184727
Hexachloro-1,3-butadiene	U		0.0152	0.0298	1	10/22/2018 19:02	WG1184727
2-Hexanone	U		0.0119	0.0298	1	10/22/2018 19:02	WG1184727
n-Hexane	U		0.00126	0.00597	1	10/24/2018 13:31	WG1185319
Iodomethane	U		0.00722	0.0149	1	10/22/2018 19:02	WG1184727
Isopropylbenzene	U		0.00103	0.00298	1	10/22/2018 19:02	WG1184727
p-Isopropyltoluene	U		0.00278	0.00597	1	10/22/2018 19:02	WG1184727
2-Butanone (MEK)	0.0676		0.0149	0.0298	1	10/24/2018 13:31	WG1185319
Methylene Chloride	U		0.00792	0.0298	1	10/22/2018 19:02	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0298	1	10/22/2018 19:02	WG1184727

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 10:38

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000352	0.00119	1	10/22/2018 19:02	WG1184727
Naphthalene	U		0.00372	0.0149	1	10/22/2018 19:02	WG1184727
n-Propylbenzene	U		0.00141	0.00597	1	10/22/2018 19:02	WG1184727
Styrene	U		0.00326	0.0149	1	10/22/2018 19:02	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000597	0.00298	1	10/22/2018 19:02	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000465	0.00298	1	10/22/2018 19:02	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000806	0.00298	1	10/22/2018 19:02	WG1184727
Tetrachloroethene	0.154		0.000835	0.00298	1	10/22/2018 19:02	WG1184727
Toluene	0.00150	J	0.00149	0.00597	1	10/22/2018 19:02	WG1184727
1,2,3-Trichlorobenzene	U		0.000746	0.00298	1	10/22/2018 19:02	WG1184727
1,2,4-Trichlorobenzene	U		0.00575	0.0149	1	10/22/2018 19:02	WG1184727
1,1,1-Trichloroethane	U		0.000328	0.00298	1	10/22/2018 19:02	WG1184727
1,1,2-Trichloroethane	U		0.00105	0.00298	1	10/24/2018 13:31	WG1185319
Trichloroethene	0.00198		0.000477	0.00119	1	10/22/2018 19:02	WG1184727
Trichlorofluoromethane	U		0.000597	0.00298	1	10/22/2018 19:02	WG1184727
1,2,3-Trichloropropane	U		0.00609	0.0149	1	10/22/2018 19:02	WG1184727
1,2,4-Trimethylbenzene	U		0.00138	0.00597	1	10/22/2018 19:02	WG1184727
1,2,3-Trimethylbenzene	U		0.00137	0.00597	1	10/22/2018 19:02	WG1184727
1,3,5-Trimethylbenzene	U		0.00129	0.00597	1	10/22/2018 19:02	WG1184727
Vinyl acetate	U		0.00420	0.0149	1	10/22/2018 19:02	WG1184727
Vinyl chloride	U		0.000815	0.00298	1	10/22/2018 19:02	WG1184727
Xylenes, Total	U		0.00570	0.00776	1	10/22/2018 19:02	WG1184727
(S) Toluene-d8	123			75.0-131		10/22/2018 19:02	WG1184727
(S) Toluene-d8	99.1			75.0-131		10/24/2018 13:31	WG1185319
(S) Dibromofluoromethane	95.1			65.0-129		10/22/2018 19:02	WG1184727
(S) Dibromofluoromethane	116			65.0-129		10/24/2018 13:31	WG1185319
(S) 4-Bromofluorobenzene	89.5			67.0-138		10/22/2018 19:02	WG1184727
(S) 4-Bromofluorobenzene	121			67.0-138		10/24/2018 13:31	WG1185319

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	86.3		1	10/24/2018 13:49	WG1185668

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.159	0.290	10	10/24/2018 16:11	WG1185319
Acrylonitrile	U		0.00220	0.0145	1	10/22/2018 19:22	WG1184727
Benzene	U		0.000464	0.00116	1	10/22/2018 19:22	WG1184727
Bromobenzene	U		0.00122	0.0145	1	10/22/2018 19:22	WG1184727
Bromodichloromethane	U		0.000913	0.00290	1	10/22/2018 19:22	WG1184727
Bromochloromethane	U		0.00131	0.00579	1	10/22/2018 19:22	WG1184727
Bromoform	U		0.00693	0.0290	1	10/22/2018 19:22	WG1184727
Bromomethane	U		0.00429	0.0145	1	10/22/2018 19:22	WG1184727
n-Butylbenzene	U		0.00445	0.0145	1	10/22/2018 19:22	WG1184727
sec-Butylbenzene	U		0.00293	0.0145	1	10/22/2018 19:22	WG1184727
tert-Butylbenzene	U		0.00180	0.00579	1	10/22/2018 19:22	WG1184727
Carbon disulfide	U		0.00470	0.0145	1	10/22/2018 19:22	WG1184727
Carbon tetrachloride	U		0.00125	0.00579	1	10/22/2018 19:22	WG1184727
Chlorobenzene	U		0.000664	0.00290	1	10/22/2018 19:22	WG1184727
Chlorodibromomethane	U		0.000521	0.00290	1	10/22/2018 19:22	WG1184727
Chloroethane	U		0.00125	0.00579	1	10/22/2018 19:22	WG1184727
Chloroform	0.00111	B J	0.000481	0.00290	1	10/22/2018 19:22	WG1184727
Chloromethane	U		0.00161	0.0145	1	10/22/2018 19:22	WG1184727
2-Chlorotoluene	U		0.00107	0.00290	1	10/22/2018 19:22	WG1184727
4-Chlorotoluene	U		0.00131	0.00579	1	10/22/2018 19:22	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00591	0.0290	1	10/22/2018 19:22	WG1184727
1,2-Dibromoethane	U		0.000608	0.00290	1	10/22/2018 19:22	WG1184727
Dibromomethane	U		0.00116	0.00579	1	10/22/2018 19:22	WG1184727
1,2-Dichlorobenzene	U		0.00168	0.00579	1	10/22/2018 19:22	WG1184727
1,3-Dichlorobenzene	U		0.00197	0.00579	1	10/22/2018 19:22	WG1184727
1,4-Dichlorobenzene	U		0.00228	0.00579	1	10/22/2018 19:22	WG1184727
Dichlorodifluoromethane	U		0.000948	0.00290	1	10/22/2018 19:22	WG1184727
1,1-Dichloroethane	U		0.000666	0.00290	1	10/22/2018 19:22	WG1184727
1,2-Dichloroethane	U		0.000550	0.00290	1	10/22/2018 19:22	WG1184727
1,1-Dichloroethene	U		0.000579	0.00290	1	10/22/2018 19:22	WG1184727
cis-1,2-Dichloroethene	0.00391		0.000800	0.00290	1	10/22/2018 19:22	WG1184727
trans-1,2-Dichloroethene	U		0.00166	0.00579	1	10/22/2018 19:22	WG1184727
1,2-Dichloropropane	U		0.0147	0.0579	10	10/24/2018 16:11	WG1185319
1,1-Dichloropropene	U		0.000811	0.00290	1	10/22/2018 19:22	WG1184727
1,3-Dichloropropane	U		0.00203	0.00579	1	10/22/2018 19:22	WG1184727
cis-1,3-Dichloropropene	U		0.000786	0.00290	1	10/22/2018 19:22	WG1184727
trans-1,3-Dichloropropene	U		0.00177	0.00579	1	10/22/2018 19:22	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00162	0.00579	1	10/22/2018 19:22	WG1184727
2,2-Dichloropropane	U		0.000919	0.00290	1	10/22/2018 19:22	WG1184727
Di-isopropyl ether	U		0.000406	0.00116	1	10/22/2018 19:22	WG1184727
Ethylbenzene	U		0.000614	0.00290	1	10/22/2018 19:22	WG1184727
Hexachloro-1,3-butadiene	U		0.0147	0.0290	1	10/22/2018 19:22	WG1184727
2-Hexanone	U		0.0116	0.0290	1	10/22/2018 19:22	WG1184727
n-Hexane	U		0.0123	0.0579	10	10/24/2018 16:11	WG1185319
Iodomethane	U		0.00701	0.0145	1	10/22/2018 19:22	WG1184727
Isopropylbenzene	U		0.00100	0.00290	1	10/22/2018 19:22	WG1184727
p-Isopropyltoluene	U		0.00270	0.00579	1	10/22/2018 19:22	WG1184727
2-Butanone (MEK)	U		0.145	0.290	10	10/24/2018 16:11	WG1185319
Methylene Chloride	U		0.00769	0.0290	1	10/22/2018 19:22	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1	10/22/2018 19:22	WG1184727

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 10:40

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000342	0.00116	1	10/22/2018 19:22	WG1184727
Naphthalene	U		0.00362	0.0145	1	10/22/2018 19:22	WG1184727
n-Propylbenzene	U		0.00137	0.00579	1	10/22/2018 19:22	WG1184727
Styrene	U		0.00316	0.0145	1	10/22/2018 19:22	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000579	0.00290	1	10/22/2018 19:22	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000452	0.00290	1	10/22/2018 19:22	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000782	0.00290	1	10/22/2018 19:22	WG1184727
Tetrachloroethene	1.57	JO	0.00811	0.0290	10	10/24/2018 16:11	WG1185319
Toluene	U		0.00145	0.00579	1	10/22/2018 19:22	WG1184727
1,2,3-Trichlorobenzene	U		0.000724	0.00290	1	10/22/2018 19:22	WG1184727
1,2,4-Trichlorobenzene	U		0.00559	0.0145	1	10/22/2018 19:22	WG1184727
1,1,1-Trichloroethane	U		0.000319	0.00290	1	10/22/2018 19:22	WG1184727
1,1,2-Trichloroethane	U		0.0102	0.0290	10	10/24/2018 16:11	WG1185319
Trichloroethene	0.00413		0.000464	0.00116	1	10/22/2018 19:22	WG1184727
Trichlorofluoromethane	U		0.000579	0.00290	1	10/22/2018 19:22	WG1184727
1,2,3-Trichloropropane	U		0.00591	0.0145	1	10/22/2018 19:22	WG1184727
1,2,4-Trimethylbenzene	U		0.00134	0.00579	1	10/22/2018 19:22	WG1184727
1,2,3-Trimethylbenzene	U		0.00133	0.00579	1	10/22/2018 19:22	WG1184727
1,3,5-Trimethylbenzene	U		0.00125	0.00579	1	10/22/2018 19:22	WG1184727
Vinyl acetate	U		0.00408	0.0145	1	10/22/2018 19:22	WG1184727
Vinyl chloride	U		0.000791	0.00290	1	10/22/2018 19:22	WG1184727
Xylenes, Total	U		0.00554	0.00753	1	10/22/2018 19:22	WG1184727
(S) Toluene-d8	126			75.0-131		10/22/2018 19:22	WG1184727
(S) Toluene-d8	99.0			75.0-131		10/24/2018 16:11	WG1185319
(S) Dibromofluoromethane	89.1			65.0-129		10/22/2018 19:22	WG1184727
(S) Dibromofluoromethane	120			65.0-129		10/24/2018 16:11	WG1185319
(S) 4-Bromofluorobenzene	85.8			67.0-138		10/22/2018 19:22	WG1184727
(S) 4-Bromofluorobenzene	130			67.0-138		10/24/2018 16:11	WG1185319

Sample Narrative:

L1036473-14 WG1185319, WG1184727: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036473-14 WG1185319, WG1184727: Not all compounds reportable at lower dilution.

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	89.6		1	10/24/2018 13:36	WG1185670

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.153	0.279	10	10/24/2018 16:32	WG1185319
Acrylonitrile	U		0.00212	0.0140	1	10/22/2018 19:43	WG1184727
Benzene	U		0.000447	0.00112	1	10/22/2018 19:43	WG1184727
Bromobenzene	U		0.00117	0.0140	1	10/22/2018 19:43	WG1184727
Bromodichloromethane	U		0.000880	0.00279	1	10/22/2018 19:43	WG1184727
Bromochloromethane	U		0.00126	0.00558	1	10/22/2018 19:43	WG1184727
Bromoform	U		0.00668	0.0279	1	10/22/2018 19:43	WG1184727
Bromomethane	U		0.00413	0.0140	1	10/22/2018 19:43	WG1184727
n-Butylbenzene	U		0.00429	0.0140	1	10/22/2018 19:43	WG1184727
sec-Butylbenzene	U		0.00282	0.0140	1	10/22/2018 19:43	WG1184727
tert-Butylbenzene	U		0.00173	0.00558	1	10/22/2018 19:43	WG1184727
Carbon disulfide	U		0.00453	0.0140	1	10/22/2018 19:43	WG1184727
Carbon tetrachloride	U		0.00121	0.00558	1	10/22/2018 19:43	WG1184727
Chlorobenzene	U		0.000640	0.00279	1	10/22/2018 19:43	WG1184727
Chlorodibromomethane	U		0.000502	0.00279	1	10/22/2018 19:43	WG1184727
Chloroethane	U		0.00121	0.00558	1	10/22/2018 19:43	WG1184727
Chloroform	0.00104	B J	0.000463	0.00279	1	10/22/2018 19:43	WG1184727
Chloromethane	U		0.00155	0.0140	1	10/22/2018 19:43	WG1184727
2-Chlorotoluene	U		0.00103	0.00279	1	10/22/2018 19:43	WG1184727
4-Chlorotoluene	U		0.00126	0.00558	1	10/22/2018 19:43	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00569	0.0279	1	10/22/2018 19:43	WG1184727
1,2-Dibromoethane	U		0.000586	0.00279	1	10/22/2018 19:43	WG1184727
Dibromomethane	U		0.00112	0.00558	1	10/22/2018 19:43	WG1184727
1,2-Dichlorobenzene	U		0.00162	0.00558	1	10/22/2018 19:43	WG1184727
1,3-Dichlorobenzene	U		0.00190	0.00558	1	10/22/2018 19:43	WG1184727
1,4-Dichlorobenzene	U		0.00220	0.00558	1	10/22/2018 19:43	WG1184727
Dichlorodifluoromethane	U		0.000913	0.00279	1	10/22/2018 19:43	WG1184727
1,1-Dichloroethane	U		0.000642	0.00279	1	10/22/2018 19:43	WG1184727
1,2-Dichloroethane	U		0.000530	0.00279	1	10/22/2018 19:43	WG1184727
1,1-Dichloroethene	U		0.000558	0.00279	1	10/22/2018 19:43	WG1184727
cis-1,2-Dichloroethene	0.00354		0.000770	0.00279	1	10/22/2018 19:43	WG1184727
trans-1,2-Dichloroethene	U		0.00160	0.00558	1	10/22/2018 19:43	WG1184727
1,2-Dichloropropane	U		0.0142	0.0558	10	10/24/2018 16:32	WG1185319
1,1-Dichloropropene	U		0.000781	0.00279	1	10/22/2018 19:43	WG1184727
1,3-Dichloropropane	U		0.00195	0.00558	1	10/22/2018 19:43	WG1184727
cis-1,3-Dichloropropene	U		0.000757	0.00279	1	10/22/2018 19:43	WG1184727
trans-1,3-Dichloropropene	U		0.00171	0.00558	1	10/22/2018 19:43	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00156	0.00558	1	10/22/2018 19:43	WG1184727
2,2-Dichloropropane	U		0.000885	0.00279	1	10/22/2018 19:43	WG1184727
Di-isopropyl ether	U		0.000391	0.00112	1	10/22/2018 19:43	WG1184727
Ethylbenzene	U		0.000592	0.00279	1	10/22/2018 19:43	WG1184727
Hexachloro-1,3-butadiene	U		0.0142	0.0279	1	10/22/2018 19:43	WG1184727
2-Hexanone	U		0.0112	0.0279	1	10/22/2018 19:43	WG1184727
n-Hexane	U		0.0118	0.0558	10	10/24/2018 16:32	WG1185319
Iodomethane	U		0.00675	0.0140	1	10/22/2018 19:43	WG1184727
Isopropylbenzene	U		0.000963	0.00279	1	10/22/2018 19:43	WG1184727
p-Isopropyltoluene	U		0.00260	0.00558	1	10/22/2018 19:43	WG1184727
2-Butanone (MEK)	U		0.140	0.279	10	10/24/2018 16:32	WG1185319
Methylene Chloride	U		0.00741	0.0279	1	10/22/2018 19:43	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0279	1	10/22/2018 19:43	WG1184727

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 10:47

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000329	0.00112	1	10/22/2018 19:43	WG1184727
Naphthalene	U		0.00348	0.0140	1	10/22/2018 19:43	WG1184727
n-Propylbenzene	U		0.00132	0.00558	1	10/22/2018 19:43	WG1184727
Styrene	U		0.00305	0.0140	1	10/22/2018 19:43	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000558	0.00279	1	10/22/2018 19:43	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000435	0.00279	1	10/22/2018 19:43	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00279	1	10/22/2018 19:43	WG1184727
Tetrachloroethene	2.37	JO	0.00781	0.0279	10	10/24/2018 16:32	WG1185319
Toluene	U		0.00140	0.00558	1	10/22/2018 19:43	WG1184727
1,2,3-Trichlorobenzene	U		0.000698	0.00279	1	10/22/2018 19:43	WG1184727
1,2,4-Trichlorobenzene	U		0.00538	0.0140	1	10/22/2018 19:43	WG1184727
1,1,1-Trichloroethane	U		0.000307	0.00279	1	10/22/2018 19:43	WG1184727
1,1,2-Trichloroethane	U		0.00986	0.0279	10	10/24/2018 16:32	WG1185319
Trichloroethene	0.00473		0.000447	0.00112	1	10/22/2018 19:43	WG1184727
Trichlorofluoromethane	U		0.000558	0.00279	1	10/22/2018 19:43	WG1184727
1,2,3-Trichloropropane	U		0.00569	0.0140	1	10/22/2018 19:43	WG1184727
1,2,4-Trimethylbenzene	U		0.00129	0.00558	1	10/22/2018 19:43	WG1184727
1,2,3-Trimethylbenzene	U		0.00128	0.00558	1	10/22/2018 19:43	WG1184727
1,3,5-Trimethylbenzene	U		0.00121	0.00558	1	10/22/2018 19:43	WG1184727
Vinyl acetate	U		0.00393	0.0140	1	10/22/2018 19:43	WG1184727
Vinyl chloride	U		0.000762	0.00279	1	10/22/2018 19:43	WG1184727
Xylenes, Total	U		0.00534	0.00726	1	10/22/2018 19:43	WG1184727
(S) Toluene-d8	129			75.0-131		10/22/2018 19:43	WG1184727
(S) Toluene-d8	98.0			75.0-131		10/24/2018 16:32	WG1185319
(S) Dibromofluoromethane	85.3			65.0-129		10/22/2018 19:43	WG1184727
(S) Dibromofluoromethane	117			65.0-129		10/24/2018 16:32	WG1185319
(S) 4-Bromofluorobenzene	84.0			67.0-138		10/22/2018 19:43	WG1184727
(S) 4-Bromofluorobenzene	127			67.0-138		10/24/2018 16:32	WG1185319

Sample Narrative:

L1036473-15 WG1185319, WG1184727: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036473-15 WG1185319, WG1184727: Not all compounds reportable at lower dilution.

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	91.0		1	10/24/2018 13:36	WG1185670

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.121	0.220	8	10/24/2018 16:52	WG1185319
Acrylonitrile	U		0.00209	0.0137	1	10/22/2018 20:03	WG1184727
Benzene	U		0.000440	0.00110	1	10/22/2018 20:03	WG1184727
Bromobenzene	U		0.00115	0.0137	1	10/22/2018 20:03	WG1184727
Bromodichloromethane	U		0.000866	0.00275	1	10/22/2018 20:03	WG1184727
Bromochloromethane	U		0.00124	0.00550	1	10/22/2018 20:03	WG1184727
Bromoform	U		0.00657	0.0275	1	10/22/2018 20:03	WG1184727
Bromomethane	U		0.00407	0.0137	1	10/22/2018 20:03	WG1184727
n-Butylbenzene	U		0.00422	0.0137	1	10/22/2018 20:03	WG1184727
sec-Butylbenzene	U		0.00278	0.0137	1	10/22/2018 20:03	WG1184727
tert-Butylbenzene	U		0.00170	0.00550	1	10/22/2018 20:03	WG1184727
Carbon disulfide	U		0.00446	0.0137	1	10/22/2018 20:03	WG1184727
Carbon tetrachloride	U		0.00119	0.00550	1	10/22/2018 20:03	WG1184727
Chlorobenzene	U		0.000630	0.00275	1	10/22/2018 20:03	WG1184727
Chlorodibromomethane	U		0.000495	0.00275	1	10/22/2018 20:03	WG1184727
Chloroethane	U		0.00119	0.00550	1	10/22/2018 20:03	WG1184727
Chloroform	0.00127	B J	0.000456	0.00275	1	10/22/2018 20:03	WG1184727
Chloromethane	U		0.00153	0.0137	1	10/22/2018 20:03	WG1184727
2-Chlorotoluene	U		0.00101	0.00275	1	10/22/2018 20:03	WG1184727
4-Chlorotoluene	U		0.00124	0.00550	1	10/22/2018 20:03	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00561	0.0275	1	10/22/2018 20:03	WG1184727
1,2-Dibromoethane	U		0.000577	0.00275	1	10/22/2018 20:03	WG1184727
Dibromomethane	U		0.00110	0.00550	1	10/22/2018 20:03	WG1184727
1,2-Dichlorobenzene	U		0.00159	0.00550	1	10/22/2018 20:03	WG1184727
1,3-Dichlorobenzene	U		0.00187	0.00550	1	10/22/2018 20:03	WG1184727
1,4-Dichlorobenzene	U		0.00217	0.00550	1	10/22/2018 20:03	WG1184727
Dichlorodifluoromethane	U		0.000899	0.00275	1	10/22/2018 20:03	WG1184727
1,1-Dichloroethane	U		0.000632	0.00275	1	10/22/2018 20:03	WG1184727
1,2-Dichloroethane	U		0.000522	0.00275	1	10/22/2018 20:03	WG1184727
1,1-Dichloroethene	U		0.000550	0.00275	1	10/22/2018 20:03	WG1184727
cis-1,2-Dichloroethene	0.00135	J	0.000759	0.00275	1	10/22/2018 20:03	WG1184727
trans-1,2-Dichloroethene	U		0.00157	0.00550	1	10/22/2018 20:03	WG1184727
1,2-Dichloropropane	U		0.0112	0.0440	8	10/24/2018 16:52	WG1185319
1,1-Dichloropropene	U		0.000770	0.00275	1	10/22/2018 20:03	WG1184727
1,3-Dichloropropane	U		0.00192	0.00550	1	10/22/2018 20:03	WG1184727
cis-1,3-Dichloropropene	U		0.000745	0.00275	1	10/22/2018 20:03	WG1184727
trans-1,3-Dichloropropene	U		0.00168	0.00550	1	10/22/2018 20:03	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00154	0.00550	1	10/22/2018 20:03	WG1184727
2,2-Dichloropropane	U		0.000872	0.00275	1	10/22/2018 20:03	WG1184727
Di-isopropyl ether	U		0.000385	0.00110	1	10/22/2018 20:03	WG1184727
Ethylbenzene	U		0.000583	0.00275	1	10/22/2018 20:03	WG1184727
Hexachloro-1,3-butadiene	U		0.0140	0.0275	1	10/22/2018 20:03	WG1184727
2-Hexanone	U		0.0110	0.0275	1	10/22/2018 20:03	WG1184727
n-Hexane	U		0.00932	0.0440	8	10/24/2018 16:52	WG1185319
Iodomethane	U		0.00665	0.0137	1	10/22/2018 20:03	WG1184727
Isopropylbenzene	U		0.000949	0.00275	1	10/22/2018 20:03	WG1184727
p-Isopropyltoluene	U		0.00256	0.00550	1	10/22/2018 20:03	WG1184727
2-Butanone (MEK)	U		0.110	0.220	8	10/24/2018 16:52	WG1185319
Methylene Chloride	U		0.00730	0.0275	1	10/22/2018 20:03	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0275	1	10/22/2018 20:03	WG1184727

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 10:50

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000324	0.00110	1	10/22/2018 20:03	WG1184727
Naphthalene	U		0.00343	0.0137	1	10/22/2018 20:03	WG1184727
n-Propylbenzene	U		0.00130	0.00550	1	10/22/2018 20:03	WG1184727
Styrene	U		0.00300	0.0137	1	10/22/2018 20:03	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000550	0.00275	1	10/22/2018 20:03	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000429	0.00275	1	10/22/2018 20:03	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000742	0.00275	1	10/22/2018 20:03	WG1184727
Tetrachloroethene	1.15	JO	0.00616	0.0220	8	10/24/2018 16:52	WG1185319
Toluene	U		0.00137	0.00550	1	10/22/2018 20:03	WG1184727
1,2,3-Trichlorobenzene	U		0.000687	0.00275	1	10/22/2018 20:03	WG1184727
1,2,4-Trichlorobenzene	U		0.00530	0.0137	1	10/22/2018 20:03	WG1184727
1,1,1-Trichloroethane	U		0.000302	0.00275	1	10/22/2018 20:03	WG1184727
1,1,2-Trichloroethane	U		0.00776	0.0220	8	10/24/2018 16:52	WG1185319
Trichloroethene	0.00325		0.000440	0.00110	1	10/22/2018 20:03	WG1184727
Trichlorofluoromethane	U		0.000550	0.00275	1	10/22/2018 20:03	WG1184727
1,2,3-Trichloropropane	U		0.00561	0.0137	1	10/22/2018 20:03	WG1184727
1,2,4-Trimethylbenzene	U		0.00128	0.00550	1	10/22/2018 20:03	WG1184727
1,2,3-Trimethylbenzene	U		0.00126	0.00550	1	10/22/2018 20:03	WG1184727
1,3,5-Trimethylbenzene	U		0.00119	0.00550	1	10/22/2018 20:03	WG1184727
Vinyl acetate	U		0.00387	0.0137	1	10/22/2018 20:03	WG1184727
Vinyl chloride	U		0.000751	0.00275	1	10/22/2018 20:03	WG1184727
Xylenes, Total	U		0.00526	0.00715	1	10/22/2018 20:03	WG1184727
(S) Toluene-d8	126			75.0-131		10/22/2018 20:03	WG1184727
(S) Toluene-d8	96.1			75.0-131		10/24/2018 16:52	WG1185319
(S) Dibromofluoromethane	92.1			65.0-129		10/22/2018 20:03	WG1184727
(S) Dibromofluoromethane	120			65.0-129		10/24/2018 16:52	WG1185319
(S) 4-Bromofluorobenzene	88.0			67.0-138		10/22/2018 20:03	WG1184727
(S) 4-Bromofluorobenzene	123			67.0-138		10/24/2018 16:52	WG1185319

Sample Narrative:

L1036473-16 WG1185319, WG1184727: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036473-16 WG1185319, WG1184727: Not all compounds reportable at lower dilution.

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	90.4		1	10/24/2018 13:36	WG1185670

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0152	0.0277	1	10/24/2018 13:51	WG1185319
Acrylonitrile	U		0.00210	0.0138	1	10/22/2018 20:24	WG1184727
Benzene	U		0.000443	0.00111	1	10/22/2018 20:24	WG1184727
Bromobenzene	U		0.00116	0.0138	1	10/22/2018 20:24	WG1184727
Bromodichloromethane	U		0.000872	0.00277	1	10/22/2018 20:24	WG1184727
Bromochloromethane	U		0.00125	0.00553	1	10/22/2018 20:24	WG1184727
Bromoform	U		0.00662	0.0277	1	10/22/2018 20:24	WG1184727
Bromomethane	U		0.00409	0.0138	1	10/22/2018 20:24	WG1184727
n-Butylbenzene	U		0.00425	0.0138	1	10/22/2018 20:24	WG1184727
sec-Butylbenzene	U		0.00280	0.0138	1	10/22/2018 20:24	WG1184727
tert-Butylbenzene	U		0.00171	0.00553	1	10/22/2018 20:24	WG1184727
Carbon disulfide	U		0.00449	0.0138	1	10/22/2018 20:24	WG1184727
Carbon tetrachloride	U		0.00119	0.00553	1	10/22/2018 20:24	WG1184727
Chlorobenzene	U		0.000634	0.00277	1	10/22/2018 20:24	WG1184727
Chlorodibromomethane	U		0.000498	0.00277	1	10/22/2018 20:24	WG1184727
Chloroethane	U		0.00119	0.00553	1	10/22/2018 20:24	WG1184727
Chloroform	0.000779	B J	0.000459	0.00277	1	10/22/2018 20:24	WG1184727
Chloromethane	U		0.00154	0.0138	1	10/22/2018 20:24	WG1184727
2-Chlorotoluene	U		0.00102	0.00277	1	10/22/2018 20:24	WG1184727
4-Chlorotoluene	U		0.00125	0.00553	1	10/22/2018 20:24	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00564	0.0277	1	10/22/2018 20:24	WG1184727
1,2-Dibromoethane	U		0.000581	0.00277	1	10/22/2018 20:24	WG1184727
Dibromomethane	U		0.00111	0.00553	1	10/22/2018 20:24	WG1184727
1,2-Dichlorobenzene	U		0.00160	0.00553	1	10/22/2018 20:24	WG1184727
1,3-Dichlorobenzene	U		0.00188	0.00553	1	10/22/2018 20:24	WG1184727
1,4-Dichlorobenzene	U		0.00218	0.00553	1	10/22/2018 20:24	WG1184727
Dichlorodifluoromethane	U		0.000905	0.00277	1	10/22/2018 20:24	WG1184727
1,1-Dichloroethane	U		0.000636	0.00277	1	10/22/2018 20:24	WG1184727
1,2-Dichloroethane	U		0.000526	0.00277	1	10/22/2018 20:24	WG1184727
1,1-Dichloroethene	U		0.000553	0.00277	1	10/22/2018 20:24	WG1184727
cis-1,2-Dichloroethene	U		0.000763	0.00277	1	10/22/2018 20:24	WG1184727
trans-1,2-Dichloroethene	U		0.00158	0.00553	1	10/22/2018 20:24	WG1184727
1,2-Dichloropropane	U		0.00141	0.00553	1	10/24/2018 13:51	WG1185319
1,1-Dichloropropene	U		0.000774	0.00277	1	10/22/2018 20:24	WG1184727
1,3-Dichloropropane	U		0.00194	0.00553	1	10/22/2018 20:24	WG1184727
cis-1,3-Dichloropropene	U		0.000750	0.00277	1	10/22/2018 20:24	WG1184727
trans-1,3-Dichloropropene	U		0.00169	0.00553	1	10/22/2018 20:24	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00155	0.00553	1	10/22/2018 20:24	WG1184727
2,2-Dichloropropane	U		0.000877	0.00277	1	10/22/2018 20:24	WG1184727
Di-isopropyl ether	U		0.000387	0.00111	1	10/22/2018 20:24	WG1184727
Ethylbenzene	U		0.000586	0.00277	1	10/22/2018 20:24	WG1184727
Hexachloro-1,3-butadiene	U		0.0141	0.0277	1	10/22/2018 20:24	WG1184727
2-Hexanone	U		0.0111	0.0277	1	10/22/2018 20:24	WG1184727
n-Hexane	U		0.00117	0.00553	1	10/24/2018 13:51	WG1185319
Iodomethane	U		0.00669	0.0138	1	10/22/2018 20:24	WG1184727
Isopropylbenzene	U		0.000955	0.00277	1	10/22/2018 20:24	WG1184727
p-Isopropyltoluene	U		0.00258	0.00553	1	10/22/2018 20:24	WG1184727
2-Butanone (MEK)	U		0.0138	0.0277	1	10/24/2018 13:51	WG1185319
Methylene Chloride	U		0.00735	0.0277	1	10/22/2018 20:24	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0277	1	10/22/2018 20:24	WG1184727

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 11:02

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000326	0.00111	1	10/22/2018 20:24	WG1184727
Naphthalene	U		0.00345	0.0138	1	10/22/2018 20:24	WG1184727
n-Propylbenzene	U		0.00131	0.00553	1	10/22/2018 20:24	WG1184727
Styrene	U		0.00302	0.0138	1	10/22/2018 20:24	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000553	0.00277	1	10/22/2018 20:24	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000431	0.00277	1	10/22/2018 20:24	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000747	0.00277	1	10/22/2018 20:24	WG1184727
Tetrachloroethene	0.0155	JO	0.000774	0.00277	1	10/24/2018 13:51	WG1185319
Toluene	U		0.00138	0.00553	1	10/22/2018 20:24	WG1184727
1,2,3-Trichlorobenzene	U		0.000691	0.00277	1	10/22/2018 20:24	WG1184727
1,2,4-Trichlorobenzene	U		0.00533	0.0138	1	10/22/2018 20:24	WG1184727
1,1,1-Trichloroethane	U		0.000304	0.00277	1	10/22/2018 20:24	WG1184727
1,1,2-Trichloroethane	U		0.000977	0.00277	1	10/24/2018 13:51	WG1185319
Trichloroethene	U		0.000443	0.00111	1	10/22/2018 20:24	WG1184727
Trichlorofluoromethane	U		0.000553	0.00277	1	10/22/2018 20:24	WG1184727
1,2,3-Trichloropropane	U		0.00564	0.0138	1	10/22/2018 20:24	WG1184727
1,2,4-Trimethylbenzene	U		0.00128	0.00553	1	10/22/2018 20:24	WG1184727
1,2,3-Trimethylbenzene	U		0.00127	0.00553	1	10/22/2018 20:24	WG1184727
1,3,5-Trimethylbenzene	U		0.00119	0.00553	1	10/22/2018 20:24	WG1184727
Vinyl acetate	U		0.00389	0.0138	1	10/22/2018 20:24	WG1184727
Vinyl chloride	U		0.000756	0.00277	1	10/22/2018 20:24	WG1184727
Xylenes, Total	U		0.00529	0.00719	1	10/22/2018 20:24	WG1184727
(S) Toluene-d8	125			75.0-131		10/22/2018 20:24	WG1184727
(S) Toluene-d8	98.6			75.0-131		10/24/2018 13:51	WG1185319
(S) Dibromofluoromethane	89.3			65.0-129		10/22/2018 20:24	WG1184727
(S) Dibromofluoromethane	115			65.0-129		10/24/2018 13:51	WG1185319
(S) 4-Bromofluorobenzene	91.0			67.0-138		10/22/2018 20:24	WG1184727
(S) 4-Bromofluorobenzene	119			67.0-138		10/24/2018 13:51	WG1185319

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	87.8		1	10/24/2018 13:36	WG1185670

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0156	0.0285	1	10/24/2018 14:12	WG1185319
Acrylonitrile	U		0.00216	0.0142	1	10/22/2018 20:44	WG1184727
Benzene	U		0.000456	0.00114	1	10/22/2018 20:44	WG1184727
Bromobenzene	U		0.00120	0.0142	1	10/22/2018 20:44	WG1184727
Bromodichloromethane	U		0.000897	0.00285	1	10/22/2018 20:44	WG1184727
Bromochloromethane	U		0.00129	0.00569	1	10/22/2018 20:44	WG1184727
Bromoform	U		0.00681	0.0285	1	10/22/2018 20:44	WG1184727
Bromomethane	U		0.00421	0.0142	1	10/22/2018 20:44	WG1184727
n-Butylbenzene	U		0.00437	0.0142	1	10/22/2018 20:44	WG1184727
sec-Butylbenzene	U		0.00288	0.0142	1	10/22/2018 20:44	WG1184727
tert-Butylbenzene	U		0.00177	0.00569	1	10/22/2018 20:44	WG1184727
Carbon disulfide	U		0.00462	0.0142	1	10/22/2018 20:44	WG1184727
Carbon tetrachloride	U		0.00123	0.00569	1	10/22/2018 20:44	WG1184727
Chlorobenzene	U		0.000653	0.00285	1	10/22/2018 20:44	WG1184727
Chlorodibromomethane	U		0.000512	0.00285	1	10/22/2018 20:44	WG1184727
Chloroethane	U		0.00123	0.00569	1	10/22/2018 20:44	WG1184727
Chloroform	0.00179	B J	0.000473	0.00285	1	10/22/2018 20:44	WG1184727
Chloromethane	U		0.00158	0.0142	1	10/22/2018 20:44	WG1184727
2-Chlorotoluene	U		0.00105	0.00285	1	10/22/2018 20:44	WG1184727
4-Chlorotoluene	U		0.00129	0.00569	1	10/22/2018 20:44	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00581	0.0285	1	10/22/2018 20:44	WG1184727
1,2-Dibromoethane	U		0.000598	0.00285	1	10/22/2018 20:44	WG1184727
Dibromomethane	U		0.00114	0.00569	1	10/22/2018 20:44	WG1184727
1,2-Dichlorobenzene	U		0.00165	0.00569	1	10/22/2018 20:44	WG1184727
1,3-Dichlorobenzene	U		0.00194	0.00569	1	10/22/2018 20:44	WG1184727
1,4-Dichlorobenzene	U		0.00224	0.00569	1	10/22/2018 20:44	WG1184727
Dichlorodifluoromethane	U		0.000932	0.00285	1	10/22/2018 20:44	WG1184727
1,1-Dichloroethane	U		0.000655	0.00285	1	10/22/2018 20:44	WG1184727
1,2-Dichloroethane	U		0.000541	0.00285	1	10/22/2018 20:44	WG1184727
1,1-Dichloroethene	U		0.000569	0.00285	1	10/22/2018 20:44	WG1184727
cis-1,2-Dichloroethene	0.0322		0.000786	0.00285	1	10/22/2018 20:44	WG1184727
trans-1,2-Dichloroethene	U		0.00163	0.00569	1	10/22/2018 20:44	WG1184727
1,2-Dichloropropane	U		0.00145	0.00569	1	10/24/2018 14:12	WG1185319
1,1-Dichloropropene	U		0.000797	0.00285	1	10/22/2018 20:44	WG1184727
1,3-Dichloropropane	U		0.00199	0.00569	1	10/22/2018 20:44	WG1184727
cis-1,3-Dichloropropene	U		0.000772	0.00285	1	10/22/2018 20:44	WG1184727
trans-1,3-Dichloropropene	U		0.00174	0.00569	1	10/22/2018 20:44	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00159	0.00569	1	10/22/2018 20:44	WG1184727
2,2-Dichloropropane	U		0.000903	0.00285	1	10/22/2018 20:44	WG1184727
Di-isopropyl ether	U		0.000399	0.00114	1	10/22/2018 20:44	WG1184727
Ethylbenzene	U		0.000604	0.00285	1	10/22/2018 20:44	WG1184727
Hexachloro-1,3-butadiene	U		0.0145	0.0285	1	10/22/2018 20:44	WG1184727
2-Hexanone	U		0.0114	0.0285	1	10/22/2018 20:44	WG1184727
n-Hexane	U		0.00121	0.00569	1	10/24/2018 14:12	WG1185319
Iodomethane	U		0.00689	0.0142	1	10/22/2018 20:44	WG1184727
Isopropylbenzene	U		0.000983	0.00285	1	10/22/2018 20:44	WG1184727
p-Isopropyltoluene	U		0.00265	0.00569	1	10/22/2018 20:44	WG1184727
2-Butanone (MEK)	0.0408		0.0142	0.0285	1	10/24/2018 14:12	WG1185319
Methylene Chloride	U		0.00756	0.0285	1	10/22/2018 20:44	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0285	1	10/22/2018 20:44	WG1184727

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 12:34

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000336	0.00114	1	10/22/2018 20:44	WG1184727
Naphthalene	U		0.00355	0.0142	1	10/22/2018 20:44	WG1184727
n-Propylbenzene	U		0.00134	0.00569	1	10/22/2018 20:44	WG1184727
Styrene	U		0.00311	0.0142	1	10/22/2018 20:44	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000569	0.00285	1	10/22/2018 20:44	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000444	0.00285	1	10/22/2018 20:44	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000769	0.00285	1	10/22/2018 20:44	WG1184727
Tetrachloroethene	0.0116	JO	0.000797	0.00285	1	10/24/2018 14:12	WG1185319
Toluene	0.00195	J	0.00142	0.00569	1	10/22/2018 20:44	WG1184727
1,2,3-Trichlorobenzene	U		0.000712	0.00285	1	10/22/2018 20:44	WG1184727
1,2,4-Trichlorobenzene	U		0.00549	0.0142	1	10/22/2018 20:44	WG1184727
1,1,1-Trichloroethane	U		0.000313	0.00285	1	10/22/2018 20:44	WG1184727
1,1,2-Trichloroethane	U		0.00101	0.00285	1	10/24/2018 14:12	WG1185319
Trichloroethene	0.0285		0.000456	0.00114	1	10/22/2018 20:44	WG1184727
Trichlorofluoromethane	U		0.000569	0.00285	1	10/22/2018 20:44	WG1184727
1,2,3-Trichloropropane	U		0.00581	0.0142	1	10/22/2018 20:44	WG1184727
1,2,4-Trimethylbenzene	U		0.00132	0.00569	1	10/22/2018 20:44	WG1184727
1,2,3-Trimethylbenzene	U		0.00131	0.00569	1	10/22/2018 20:44	WG1184727
1,3,5-Trimethylbenzene	U		0.00123	0.00569	1	10/22/2018 20:44	WG1184727
Vinyl acetate	U		0.00401	0.0142	1	10/22/2018 20:44	WG1184727
Vinyl chloride	U		0.000778	0.00285	1	10/22/2018 20:44	WG1184727
Xylenes, Total	U		0.00544	0.00740	1	10/22/2018 20:44	WG1184727
(S) Toluene-d8	121			75.0-131		10/22/2018 20:44	WG1184727
(S) Toluene-d8	100			75.0-131		10/24/2018 14:12	WG1185319
(S) Dibromofluoromethane	92.8			65.0-129		10/22/2018 20:44	WG1184727
(S) Dibromofluoromethane	113			65.0-129		10/24/2018 14:12	WG1185319
(S) 4-Bromofluorobenzene	89.8			67.0-138		10/22/2018 20:44	WG1184727
(S) 4-Bromofluorobenzene	118			67.0-138		10/24/2018 14:12	WG1185319

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	88.8		1	10/24/2018 13:36	WG1185670

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0617	0.113	4	10/24/2018 17:12	WG1185319
Acrylonitrile	U		0.00214	0.0141	1	10/22/2018 21:04	WG1184727
Benzene	U		0.000451	0.00113	1	10/22/2018 21:04	WG1184727
Bromobenzene	U		0.00118	0.0141	1	10/22/2018 21:04	WG1184727
Bromodichloromethane	U		0.000887	0.00282	1	10/22/2018 21:04	WG1184727
Bromochloromethane	U		0.00127	0.00563	1	10/22/2018 21:04	WG1184727
Bromoform	U		0.00673	0.0282	1	10/22/2018 21:04	WG1184727
Bromomethane	U		0.00417	0.0141	1	10/22/2018 21:04	WG1184727
n-Butylbenzene	U		0.00432	0.0141	1	10/22/2018 21:04	WG1184727
sec-Butylbenzene	U		0.00285	0.0141	1	10/22/2018 21:04	WG1184727
tert-Butylbenzene	U		0.00175	0.00563	1	10/22/2018 21:04	WG1184727
Carbon disulfide	U		0.00457	0.0141	1	10/22/2018 21:04	WG1184727
Carbon tetrachloride	U		0.00122	0.00563	1	10/22/2018 21:04	WG1184727
Chlorobenzene	U		0.000645	0.00282	1	10/22/2018 21:04	WG1184727
Chlorodibromomethane	U		0.000507	0.00282	1	10/22/2018 21:04	WG1184727
Chloroethane	U		0.00122	0.00563	1	10/22/2018 21:04	WG1184727
Chloroform	0.00162	B J	0.000467	0.00282	1	10/22/2018 21:04	WG1184727
Chloromethane	U		0.00157	0.0141	1	10/22/2018 21:04	WG1184727
2-Chlorotoluene	U		0.00104	0.00282	1	10/22/2018 21:04	WG1184727
4-Chlorotoluene	U		0.00127	0.00563	1	10/22/2018 21:04	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00574	0.0282	1	10/22/2018 21:04	WG1184727
1,2-Dibromoethane	U		0.000591	0.00282	1	10/22/2018 21:04	WG1184727
Dibromomethane	U		0.00113	0.00563	1	10/22/2018 21:04	WG1184727
1,2-Dichlorobenzene	U		0.00163	0.00563	1	10/22/2018 21:04	WG1184727
1,3-Dichlorobenzene	U		0.00191	0.00563	1	10/22/2018 21:04	WG1184727
1,4-Dichlorobenzene	U		0.00222	0.00563	1	10/22/2018 21:04	WG1184727
Dichlorodifluoromethane	U		0.000921	0.00282	1	10/22/2018 21:04	WG1184727
1,1-Dichloroethane	U		0.000648	0.00282	1	10/22/2018 21:04	WG1184727
1,2-Dichloroethane	U		0.000535	0.00282	1	10/22/2018 21:04	WG1184727
1,1-Dichloroethene	U		0.000563	0.00282	1	10/22/2018 21:04	WG1184727
cis-1,2-Dichloroethene	0.00584		0.000777	0.00282	1	10/22/2018 21:04	WG1184727
trans-1,2-Dichloroethene	U		0.00161	0.00563	1	10/22/2018 21:04	WG1184727
1,2-Dichloropropane	U		0.00572	0.0225	4	10/24/2018 17:12	WG1185319
1,1-Dichloropropene	U		0.000788	0.00282	1	10/22/2018 21:04	WG1184727
1,3-Dichloropropane	U		0.00197	0.00563	1	10/22/2018 21:04	WG1184727
cis-1,3-Dichloropropene	U		0.000764	0.00282	1	10/22/2018 21:04	WG1184727
trans-1,3-Dichloropropene	U		0.00172	0.00563	1	10/22/2018 21:04	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00158	0.00563	1	10/22/2018 21:04	WG1184727
2,2-Dichloropropane	U		0.000893	0.00282	1	10/22/2018 21:04	WG1184727
Di-isopropyl ether	U		0.000394	0.00113	1	10/22/2018 21:04	WG1184727
Ethylbenzene	U		0.000597	0.00282	1	10/22/2018 21:04	WG1184727
Hexachloro-1,3-butadiene	U		0.0143	0.0282	1	10/22/2018 21:04	WG1184727
2-Hexanone	U		0.0113	0.0282	1	10/22/2018 21:04	WG1184727
n-Hexane	U		0.00478	0.0225	4	10/24/2018 17:12	WG1185319
Iodomethane	U		0.00681	0.0141	1	10/22/2018 21:04	WG1184727
Isopropylbenzene	U		0.000972	0.00282	1	10/22/2018 21:04	WG1184727
p-Isopropyltoluene	U		0.00262	0.00563	1	10/22/2018 21:04	WG1184727
2-Butanone (MEK)	U		0.0563	0.113	4	10/24/2018 17:12	WG1185319
Methylene Chloride	U		0.00748	0.0282	1	10/22/2018 21:04	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0282	1	10/22/2018 21:04	WG1184727

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 12:38

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000332	0.00113	1	10/22/2018 21:04	WG1184727
Naphthalene	U		0.00351	0.0141	1	10/22/2018 21:04	WG1184727
n-Propylbenzene	U		0.00133	0.00563	1	10/22/2018 21:04	WG1184727
Styrene	U		0.00307	0.0141	1	10/22/2018 21:04	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000563	0.00282	1	10/22/2018 21:04	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000439	0.00282	1	10/22/2018 21:04	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000760	0.00282	1	10/22/2018 21:04	WG1184727
Tetrachloroethene	0.917	JO	0.00315	0.0113	4	10/24/2018 17:12	WG1185319
Toluene	0.00193	J	0.00141	0.00563	1	10/22/2018 21:04	WG1184727
1,2,3-Trichlorobenzene	U		0.000704	0.00282	1	10/22/2018 21:04	WG1184727
1,2,4-Trichlorobenzene	U		0.00543	0.0141	1	10/22/2018 21:04	WG1184727
1,1,1-Trichloroethane	U		0.000310	0.00282	1	10/22/2018 21:04	WG1184727
1,1,2-Trichloroethane	U		0.00398	0.0113	4	10/24/2018 17:12	WG1185319
Trichloroethene	0.00621		0.000451	0.00113	1	10/22/2018 21:04	WG1184727
Trichlorofluoromethane	U		0.000563	0.00282	1	10/22/2018 21:04	WG1184727
1,2,3-Trichloropropane	U		0.00574	0.0141	1	10/22/2018 21:04	WG1184727
1,2,4-Trimethylbenzene	U		0.00131	0.00563	1	10/22/2018 21:04	WG1184727
1,2,3-Trimethylbenzene	U		0.00130	0.00563	1	10/22/2018 21:04	WG1184727
1,3,5-Trimethylbenzene	U		0.00122	0.00563	1	10/22/2018 21:04	WG1184727
Vinyl acetate	U		0.00396	0.0141	1	10/22/2018 21:04	WG1184727
Vinyl chloride	U		0.000769	0.00282	1	10/22/2018 21:04	WG1184727
Xylenes, Total	U		0.00538	0.00732	1	10/22/2018 21:04	WG1184727
(S) Toluene-d8	128			75.0-131		10/22/2018 21:04	WG1184727
(S) Toluene-d8	98.3			75.0-131		10/24/2018 17:12	WG1185319
(S) Dibromofluoromethane	84.8			65.0-129		10/22/2018 21:04	WG1184727
(S) Dibromofluoromethane	118			65.0-129		10/24/2018 17:12	WG1185319
(S) 4-Bromofluorobenzene	77.3			67.0-138		10/22/2018 21:04	WG1184727
(S) 4-Bromofluorobenzene	124			67.0-138		10/24/2018 17:12	WG1185319

Sample Narrative:

L1036473-19 WG1185319, WG1184727: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036473-19 WG1185319, WG1184727: Not all compounds reportable at lower dilution.

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	91.3		1	10/24/2018 13:36	WG1185670

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.150	0.274	10	10/24/2018 17:32	WG1185319
Acrylonitrile	U		0.00208	0.0137	1	10/22/2018 21:25	WG1184727
Benzene	U		0.000438	0.00110	1	10/22/2018 21:25	WG1184727
Bromobenzene	U		0.00115	0.0137	1	10/22/2018 21:25	WG1184727
Bromodichloromethane	U		0.000863	0.00274	1	10/22/2018 21:25	WG1184727
Bromochloromethane	U		0.00124	0.00548	1	10/22/2018 21:25	WG1184727
Bromoform	U		0.00655	0.0274	1	10/22/2018 21:25	WG1184727
Bromomethane	U		0.00405	0.0137	1	10/22/2018 21:25	WG1184727
n-Butylbenzene	U		0.00421	0.0137	1	10/22/2018 21:25	WG1184727
sec-Butylbenzene	U		0.00277	0.0137	1	10/22/2018 21:25	WG1184727
tert-Butylbenzene	U		0.00170	0.00548	1	10/22/2018 21:25	WG1184727
Carbon disulfide	U		0.00445	0.0137	1	10/22/2018 21:25	WG1184727
Carbon tetrachloride	U		0.00118	0.00548	1	10/22/2018 21:25	WG1184727
Chlorobenzene	U		0.000628	0.00274	1	10/22/2018 21:25	WG1184727
Chlorodibromomethane	U		0.000493	0.00274	1	10/22/2018 21:25	WG1184727
Chloroethane	U		0.00118	0.00548	1	10/22/2018 21:25	WG1184727
Chloroform	0.00127	B J	0.000455	0.00274	1	10/22/2018 21:25	WG1184727
Chloromethane	U		0.00152	0.0137	1	10/22/2018 21:25	WG1184727
2-Chlorotoluene	U		0.00101	0.00274	1	10/22/2018 21:25	WG1184727
4-Chlorotoluene	U		0.00124	0.00548	1	10/22/2018 21:25	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00559	0.0274	1	10/22/2018 21:25	WG1184727
1,2-Dibromoethane	U		0.000575	0.00274	1	10/22/2018 21:25	WG1184727
Dibromomethane	U		0.00110	0.00548	1	10/22/2018 21:25	WG1184727
1,2-Dichlorobenzene	U		0.00159	0.00548	1	10/22/2018 21:25	WG1184727
1,3-Dichlorobenzene	U		0.00186	0.00548	1	10/22/2018 21:25	WG1184727
1,4-Dichlorobenzene	U		0.00216	0.00548	1	10/22/2018 21:25	WG1184727
Dichlorodifluoromethane	U		0.000896	0.00274	1	10/22/2018 21:25	WG1184727
1,1-Dichloroethane	U		0.000630	0.00274	1	10/22/2018 21:25	WG1184727
1,2-Dichloroethane	U		0.000520	0.00274	1	10/22/2018 21:25	WG1184727
1,1-Dichloroethene	U		0.000548	0.00274	1	10/22/2018 21:25	WG1184727
cis-1,2-Dichloroethene	0.00458		0.000756	0.00274	1	10/22/2018 21:25	WG1184727
trans-1,2-Dichloroethene	U		0.00157	0.00548	1	10/22/2018 21:25	WG1184727
1,2-Dichloropropane	U		0.0139	0.0548	10	10/24/2018 17:32	WG1185319
1,1-Dichloropropene	U		0.000767	0.00274	1	10/22/2018 21:25	WG1184727
1,3-Dichloropropane	U		0.00192	0.00548	1	10/22/2018 21:25	WG1184727
cis-1,3-Dichloropropene	U		0.000743	0.00274	1	10/22/2018 21:25	WG1184727
trans-1,3-Dichloropropene	U		0.00168	0.00548	1	10/22/2018 21:25	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00153	0.00548	1	10/22/2018 21:25	WG1184727
2,2-Dichloropropane	U		0.000869	0.00274	1	10/22/2018 21:25	WG1184727
Di-isopropyl ether	U		0.000383	0.00110	1	10/22/2018 21:25	WG1184727
Ethylbenzene	U		0.000581	0.00274	1	10/22/2018 21:25	WG1184727
Hexachloro-1,3-butadiene	U		0.0139	0.0274	1	10/22/2018 21:25	WG1184727
2-Hexanone	U		0.0110	0.0274	1	10/22/2018 21:25	WG1184727
n-Hexane	U		0.0116	0.0548	10	10/24/2018 17:32	WG1185319
Iodomethane	U		0.00663	0.0137	1	10/22/2018 21:25	WG1184727
Isopropylbenzene	U		0.000945	0.00274	1	10/22/2018 21:25	WG1184727
p-Isopropyltoluene	U		0.00255	0.00548	1	10/22/2018 21:25	WG1184727
2-Butanone (MEK)	U		0.137	0.274	10	10/24/2018 17:32	WG1185319
Methylene Chloride	U		0.00727	0.0274	1	10/22/2018 21:25	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0274	1	10/22/2018 21:25	WG1184727

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 12:40

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000323	0.00110	1	10/22/2018 21:25	WG1184727
Naphthalene	U		0.00342	0.0137	1	10/22/2018 21:25	WG1184727
n-Propylbenzene	U		0.00129	0.00548	1	10/22/2018 21:25	WG1184727
Styrene	U		0.00299	0.0137	1	10/22/2018 21:25	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000548	0.00274	1	10/22/2018 21:25	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000427	0.00274	1	10/22/2018 21:25	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000739	0.00274	1	10/22/2018 21:25	WG1184727
Tetrachloroethene	2.29	<u>JO</u>	0.00767	0.0274	10	10/24/2018 17:32	WG1185319
Toluene	U		0.00137	0.00548	1	10/22/2018 21:25	WG1184727
1,2,3-Trichlorobenzene	U		0.000685	0.00274	1	10/22/2018 21:25	WG1184727
1,2,4-Trichlorobenzene	U		0.00528	0.0137	1	10/22/2018 21:25	WG1184727
1,1,1-Trichloroethane	U		0.000301	0.00274	1	10/22/2018 21:25	WG1184727
1,1,2-Trichloroethane	U		0.00967	0.0274	10	10/24/2018 17:32	WG1185319
Trichloroethene	0.00740		0.000438	0.00110	1	10/22/2018 21:25	WG1184727
Trichlorofluoromethane	U		0.000548	0.00274	1	10/22/2018 21:25	WG1184727
1,2,3-Trichloropropane	U		0.00559	0.0137	1	10/22/2018 21:25	WG1184727
1,2,4-Trimethylbenzene	U		0.00127	0.00548	1	10/22/2018 21:25	WG1184727
1,2,3-Trimethylbenzene	U		0.00126	0.00548	1	10/22/2018 21:25	WG1184727
1,3,5-Trimethylbenzene	U		0.00118	0.00548	1	10/22/2018 21:25	WG1184727
Vinyl acetate	U		0.00386	0.0137	1	10/22/2018 21:25	WG1184727
Vinyl chloride	U		0.000748	0.00274	1	10/22/2018 21:25	WG1184727
Xylenes, Total	U		0.00524	0.00712	1	10/22/2018 21:25	WG1184727
(S) Toluene-d8	129			75.0-131		10/22/2018 21:25	WG1184727
(S) Toluene-d8	96.5			75.0-131		10/24/2018 17:32	WG1185319
(S) Dibromofluoromethane	84.8			65.0-129		10/22/2018 21:25	WG1184727
(S) Dibromofluoromethane	117			65.0-129		10/24/2018 17:32	WG1185319
(S) 4-Bromofluorobenzene	81.5			67.0-138		10/22/2018 21:25	WG1184727
(S) 4-Bromofluorobenzene	128			67.0-138		10/24/2018 17:32	WG1185319

Sample Narrative:

L1036473-20 WG1185319, WG1184727: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036473-20 WG1185319, WG1184727: Not all compounds reportable at lower dilution.

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	89.1		1	10/24/2018 13:36	WG1185670

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		1.24	2.25	80	10/24/2018 19:32	WG1185319
Acrylonitrile	U		0.00213	0.0140	1	10/22/2018 21:45	WG1184727
Benzene	U		0.000449	0.00112	1	10/22/2018 21:45	WG1184727
Bromobenzene	U		0.00118	0.0140	1	10/22/2018 21:45	WG1184727
Bromodichloromethane	U		0.0707	0.225	80	10/24/2018 19:32	WG1185319
Bromochloromethane	U		0.00127	0.00561	1	10/22/2018 21:45	WG1184727
Bromoform	U		0.00671	0.0281	1	10/22/2018 21:45	WG1184727
Bromomethane	U		0.00415	0.0140	1	10/22/2018 21:45	WG1184727
n-Butylbenzene	U		0.00431	0.0140	1	10/22/2018 21:45	WG1184727
sec-Butylbenzene	U		0.00284	0.0140	1	10/22/2018 21:45	WG1184727
tert-Butylbenzene	U		0.00174	0.00561	1	10/22/2018 21:45	WG1184727
Carbon disulfide	U		0.00456	0.0140	1	10/22/2018 21:45	WG1184727
Carbon tetrachloride	U		0.00121	0.00561	1	10/22/2018 21:45	WG1184727
Chlorobenzene	U		0.000643	0.00281	1	10/22/2018 21:45	WG1184727
Chlorodibromomethane	U		0.000505	0.00281	1	10/22/2018 21:45	WG1184727
Chloroethane	U		0.00121	0.00561	1	10/22/2018 21:45	WG1184727
Chloroform	0.00111	B J	0.000466	0.00281	1	10/22/2018 21:45	WG1184727
Chloromethane	U		0.00156	0.0140	1	10/22/2018 21:45	WG1184727
2-Chlorotoluene	U		0.00103	0.00281	1	10/22/2018 21:45	WG1184727
4-Chlorotoluene	U		0.00127	0.00561	1	10/22/2018 21:45	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00573	0.0281	1	10/22/2018 21:45	WG1184727
1,2-Dibromoethane	U		0.000590	0.00281	1	10/22/2018 21:45	WG1184727
Dibromomethane	U		0.00112	0.00561	1	10/22/2018 21:45	WG1184727
1,2-Dichlorobenzene	U		0.00163	0.00561	1	10/22/2018 21:45	WG1184727
1,3-Dichlorobenzene	U		0.00191	0.00561	1	10/22/2018 21:45	WG1184727
1,4-Dichlorobenzene	U		0.00221	0.00561	1	10/22/2018 21:45	WG1184727
Dichlorodifluoromethane	U		0.000919	0.00281	1	10/22/2018 21:45	WG1184727
1,1-Dichloroethane	U		0.000646	0.00281	1	10/22/2018 21:45	WG1184727
1,2-Dichloroethane	U		0.000533	0.00281	1	10/22/2018 21:45	WG1184727
1,1-Dichloroethene	U		0.000561	0.00281	1	10/22/2018 21:45	WG1184727
cis-1,2-Dichloroethene	0.00229	J	0.000775	0.00281	1	10/22/2018 21:45	WG1184727
trans-1,2-Dichloroethene	U		0.00161	0.00561	1	10/22/2018 21:45	WG1184727
1,2-Dichloropropane	U		0.00143	0.00561	1	10/22/2018 21:45	WG1184727
1,1-Dichloropropene	U		0.000786	0.00281	1	10/22/2018 21:45	WG1184727
1,3-Dichloropropane	U		0.00197	0.00561	1	10/22/2018 21:45	WG1184727
cis-1,3-Dichloropropene	U		0.000761	0.00281	1	10/22/2018 21:45	WG1184727
trans-1,3-Dichloropropene	U		0.00172	0.00561	1	10/22/2018 21:45	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00157	0.00561	1	10/22/2018 21:45	WG1184727
2,2-Dichloropropane	U		0.000890	0.00281	1	10/22/2018 21:45	WG1184727
Di-isopropyl ether	U		0.000393	0.00112	1	10/22/2018 21:45	WG1184727
Ethylbenzene	U		0.000595	0.00281	1	10/22/2018 21:45	WG1184727
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	10/22/2018 21:45	WG1184727
2-Hexanone	U		0.0112	0.0281	1	10/22/2018 21:45	WG1184727
n-Hexane	U		0.0952	0.449	80	10/24/2018 19:32	WG1185319
Iodomethane	U		0.00679	0.0140	1	10/22/2018 21:45	WG1184727
Isopropylbenzene	U		0.000969	0.00281	1	10/22/2018 21:45	WG1184727
p-Isopropyltoluene	U		0.00262	0.00561	1	10/22/2018 21:45	WG1184727
2-Butanone (MEK)	U		1.12	2.25	80	10/24/2018 19:32	WG1185319
Methylene Chloride	U		0.00746	0.0281	1	10/22/2018 21:45	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	10/22/2018 21:45	WG1184727

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 12:44

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000331	0.00112	1	10/22/2018 21:45	WG1184727
Naphthalene	U		0.00350	0.0140	1	10/22/2018 21:45	WG1184727
n-Propylbenzene	U		0.00132	0.00561	1	10/22/2018 21:45	WG1184727
Styrene	U		0.00307	0.0140	1	10/22/2018 21:45	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000561	0.00281	1	10/22/2018 21:45	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000438	0.00281	1	10/22/2018 21:45	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000758	0.00281	1	10/22/2018 21:45	WG1184727
Tetrachloroethene	15.7	JO	0.0629	0.225	80	10/24/2018 19:32	WG1185319
Toluene	0.00193	U	0.00140	0.00561	1	10/22/2018 21:45	WG1184727
1,2,3-Trichlorobenzene	U		0.000702	0.00281	1	10/22/2018 21:45	WG1184727
1,2,4-Trichlorobenzene	U		0.00541	0.0140	1	10/22/2018 21:45	WG1184727
1,1,1-Trichloroethane	U		0.000309	0.00281	1	10/22/2018 21:45	WG1184727
1,1,2-Trichloroethane	U		0.0793	0.225	80	10/24/2018 19:32	WG1185319
Trichloroethene	0.0186		0.000449	0.00112	1	10/22/2018 21:45	WG1184727
Trichlorofluoromethane	U		0.000561	0.00281	1	10/22/2018 21:45	WG1184727
1,2,3-Trichloropropane	U		0.00573	0.0140	1	10/22/2018 21:45	WG1184727
1,2,4-Trimethylbenzene	0.00139	U	0.00130	0.00561	1	10/22/2018 21:45	WG1184727
1,2,3-Trimethylbenzene	U		0.00129	0.00561	1	10/22/2018 21:45	WG1184727
1,3,5-Trimethylbenzene	U		0.00121	0.00561	1	10/22/2018 21:45	WG1184727
Vinyl acetate	U		0.00395	0.0140	1	10/22/2018 21:45	WG1184727
Vinyl chloride	U		0.000767	0.00281	1	10/22/2018 21:45	WG1184727
Xylenes, Total	U		0.00537	0.00730	1	10/22/2018 21:45	WG1184727
(S) Toluene-d8	132	U1		75.0-131		10/22/2018 21:45	WG1184727
(S) Toluene-d8	97.8			75.0-131		10/24/2018 19:32	WG1185319
(S) Dibromofluoromethane	87.2			65.0-129		10/22/2018 21:45	WG1184727
(S) Dibromofluoromethane	119			65.0-129		10/24/2018 19:32	WG1185319
(S) 4-Bromofluorobenzene	80.8			67.0-138		10/22/2018 21:45	WG1184727
(S) 4-Bromofluorobenzene	123			67.0-138		10/24/2018 19:32	WG1185319

Sample Narrative:

L1036473-21 WG1185319, WG1184727: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036473-21 WG1185319, WG1184727: Not all compounds reportable at lower dilution.

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	90.8		1	10/24/2018 13:36	WG1185670

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0604	0.110	4	10/24/2018 17:52	WG1185319
Acrylonitrile	U		0.00209	0.0138	1	10/22/2018 22:05	WG1184727
Benzene	U		0.000441	0.00110	1	10/22/2018 22:05	WG1184727
Bromobenzene	U		0.00116	0.0138	1	10/22/2018 22:05	WG1184727
Bromodichloromethane	U		0.000868	0.00275	1	10/22/2018 22:05	WG1184727
Bromochloromethane	U		0.00124	0.00551	1	10/22/2018 22:05	WG1184727
Bromoform	U		0.00659	0.0275	1	10/22/2018 22:05	WG1184727
Bromomethane	U		0.00408	0.0138	1	10/22/2018 22:05	WG1184727
n-Butylbenzene	U		0.00423	0.0138	1	10/22/2018 22:05	WG1184727
sec-Butylbenzene	U		0.00279	0.0138	1	10/22/2018 22:05	WG1184727
tert-Butylbenzene	U		0.00171	0.00551	1	10/22/2018 22:05	WG1184727
Carbon disulfide	U		0.00447	0.0138	1	10/22/2018 22:05	WG1184727
Carbon tetrachloride	U		0.00119	0.00551	1	10/22/2018 22:05	WG1184727
Chlorobenzene	U		0.000631	0.00275	1	10/22/2018 22:05	WG1184727
Chlorodibromomethane	U		0.000496	0.00275	1	10/22/2018 22:05	WG1184727
Chloroethane	U		0.00119	0.00551	1	10/22/2018 22:05	WG1184727
Chloroform	0.00118	B J	0.000457	0.00275	1	10/22/2018 22:05	WG1184727
Chloromethane	U		0.00153	0.0138	1	10/22/2018 22:05	WG1184727
2-Chlorotoluene	U		0.00101	0.00275	1	10/22/2018 22:05	WG1184727
4-Chlorotoluene	U		0.00124	0.00551	1	10/22/2018 22:05	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00562	0.0275	1	10/22/2018 22:05	WG1184727
1,2-Dibromoethane	U		0.000578	0.00275	1	10/22/2018 22:05	WG1184727
Dibromomethane	U		0.00110	0.00551	1	10/22/2018 22:05	WG1184727
1,2-Dichlorobenzene	U		0.00160	0.00551	1	10/22/2018 22:05	WG1184727
1,3-Dichlorobenzene	U		0.00187	0.00551	1	10/22/2018 22:05	WG1184727
1,4-Dichlorobenzene	U		0.00217	0.00551	1	10/22/2018 22:05	WG1184727
Dichlorodifluoromethane	U		0.000901	0.00275	1	10/22/2018 22:05	WG1184727
1,1-Dichloroethane	U		0.000633	0.00275	1	10/22/2018 22:05	WG1184727
1,2-Dichloroethane	U		0.000523	0.00275	1	10/22/2018 22:05	WG1184727
1,1-Dichloroethene	U		0.000551	0.00275	1	10/22/2018 22:05	WG1184727
cis-1,2-Dichloroethene	U		0.000760	0.00275	1	10/22/2018 22:05	WG1184727
trans-1,2-Dichloroethene	U		0.00158	0.00551	1	10/22/2018 22:05	WG1184727
1,2-Dichloropropane	U		0.00560	0.0220	4	10/24/2018 17:52	WG1185319
1,1-Dichloropropene	U		0.000771	0.00275	1	10/22/2018 22:05	WG1184727
1,3-Dichloropropane	U		0.00193	0.00551	1	10/22/2018 22:05	WG1184727
cis-1,3-Dichloropropene	U		0.000747	0.00275	1	10/22/2018 22:05	WG1184727
trans-1,3-Dichloropropene	U		0.00169	0.00551	1	10/22/2018 22:05	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00154	0.00551	1	10/22/2018 22:05	WG1184727
2,2-Dichloropropane	U		0.000873	0.00275	1	10/22/2018 22:05	WG1184727
Di-isopropyl ether	U		0.000386	0.00110	1	10/22/2018 22:05	WG1184727
Ethylbenzene	U		0.000584	0.00275	1	10/22/2018 22:05	WG1184727
Hexachloro-1,3-butadiene	U		0.0140	0.0275	1	10/22/2018 22:05	WG1184727
2-Hexanone	U		0.0110	0.0275	1	10/22/2018 22:05	WG1184727
n-Hexane	U		0.00467	0.0220	4	10/24/2018 17:52	WG1185319
Iodomethane	U		0.00666	0.0138	1	10/22/2018 22:05	WG1184727
Isopropylbenzene	U		0.000951	0.00275	1	10/22/2018 22:05	WG1184727
p-Isopropyltoluene	U		0.00257	0.00551	1	10/22/2018 22:05	WG1184727
2-Butanone (MEK)	U		0.0551	0.110	4	10/24/2018 17:52	WG1185319
Methylene Chloride	U		0.00731	0.0275	1	10/22/2018 22:05	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0275	1	10/22/2018 22:05	WG1184727

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 13:05

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000325	0.00110	1	10/22/2018 22:05	WG1184727
Naphthalene	U		0.00344	0.0138	1	10/22/2018 22:05	WG1184727
n-Propylbenzene	U		0.00130	0.00551	1	10/22/2018 22:05	WG1184727
Styrene	U		0.00301	0.0138	1	10/22/2018 22:05	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000551	0.00275	1	10/22/2018 22:05	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000430	0.00275	1	10/22/2018 22:05	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000743	0.00275	1	10/22/2018 22:05	WG1184727
Tetrachloroethene	0.868	JO	0.00308	0.0110	4	10/24/2018 17:52	WG1185319
Toluene	U		0.00138	0.00551	1	10/22/2018 22:05	WG1184727
1,2,3-Trichlorobenzene	U		0.000688	0.00275	1	10/22/2018 22:05	WG1184727
1,2,4-Trichlorobenzene	U		0.00531	0.0138	1	10/22/2018 22:05	WG1184727
1,1,1-Trichloroethane	U		0.000303	0.00275	1	10/22/2018 22:05	WG1184727
1,1,2-Trichloroethane	U		0.00389	0.0110	4	10/24/2018 17:52	WG1185319
Trichloroethene	0.00529		0.000441	0.00110	1	10/22/2018 22:05	WG1184727
Trichlorofluoromethane	U		0.000551	0.00275	1	10/22/2018 22:05	WG1184727
1,2,3-Trichloropropane	U		0.00562	0.0138	1	10/22/2018 22:05	WG1184727
1,2,4-Trimethylbenzene	U		0.00128	0.00551	1	10/22/2018 22:05	WG1184727
1,2,3-Trimethylbenzene	U		0.00127	0.00551	1	10/22/2018 22:05	WG1184727
1,3,5-Trimethylbenzene	U		0.00119	0.00551	1	10/22/2018 22:05	WG1184727
Vinyl acetate	U		0.00388	0.0138	1	10/22/2018 22:05	WG1184727
Vinyl chloride	U		0.000752	0.00275	1	10/22/2018 22:05	WG1184727
Xylenes, Total	U		0.00526	0.00716	1	10/22/2018 22:05	WG1184727
(S) Toluene-d8	127			75.0-131		10/22/2018 22:05	WG1184727
(S) Toluene-d8	98.2			75.0-131		10/24/2018 17:52	WG1185319
(S) Dibromofluoromethane	93.5			65.0-129		10/22/2018 22:05	WG1184727
(S) Dibromofluoromethane	119			65.0-129		10/24/2018 17:52	WG1185319
(S) 4-Bromofluorobenzene	89.2			67.0-138		10/22/2018 22:05	WG1184727
(S) 4-Bromofluorobenzene	122			67.0-138		10/24/2018 17:52	WG1185319

Sample Narrative:

L1036473-22 WG1185319, WG1184727: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036473-22 WG1185319, WG1184727: Not all compounds reportable at lower dilution.

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	82.1		1	10/24/2018 13:36	WG1185670

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0288	J	0.0167	0.0305	1	10/24/2018 14:32	WG1185319
Acrylonitrile	U		0.00232	0.0152	1	10/22/2018 22:26	WG1184727
Benzene	U		0.000487	0.00122	1	10/22/2018 22:26	WG1184727
Bromobenzene	U		0.00128	0.0152	1	10/22/2018 22:26	WG1184727
Bromodichloromethane	U		0.000960	0.00305	1	10/22/2018 22:26	WG1184727
Bromochloromethane	U		0.00138	0.00609	1	10/22/2018 22:26	WG1184727
Bromoform	U		0.00729	0.0305	1	10/22/2018 22:26	WG1184727
Bromomethane	U		0.00451	0.0152	1	10/22/2018 22:26	WG1184727
n-Butylbenzene	U		0.00468	0.0152	1	10/22/2018 22:26	WG1184727
sec-Butylbenzene	U		0.00308	0.0152	1	10/22/2018 22:26	WG1184727
tert-Butylbenzene	U		0.00189	0.00609	1	10/22/2018 22:26	WG1184727
Carbon disulfide	U		0.00495	0.0152	1	10/22/2018 22:26	WG1184727
Carbon tetrachloride	U		0.00132	0.00609	1	10/22/2018 22:26	WG1184727
Chlorobenzene	U		0.000698	0.00305	1	10/22/2018 22:26	WG1184727
Chlorodibromomethane	U		0.000548	0.00305	1	10/22/2018 22:26	WG1184727
Chloroethane	U		0.00132	0.00609	1	10/22/2018 22:26	WG1184727
Chloroform	0.00119	B J	0.000506	0.00305	1	10/22/2018 22:26	WG1184727
Chloromethane	U		0.00169	0.0152	1	10/22/2018 22:26	WG1184727
2-Chlorotoluene	U		0.00112	0.00305	1	10/22/2018 22:26	WG1184727
4-Chlorotoluene	U		0.00138	0.00609	1	10/22/2018 22:26	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00621	0.0305	1	10/22/2018 22:26	WG1184727
1,2-Dibromoethane	U		0.000640	0.00305	1	10/22/2018 22:26	WG1184727
Dibromomethane	U		0.00122	0.00609	1	10/22/2018 22:26	WG1184727
1,2-Dichlorobenzene	U		0.00177	0.00609	1	10/22/2018 22:26	WG1184727
1,3-Dichlorobenzene	U		0.00207	0.00609	1	10/22/2018 22:26	WG1184727
1,4-Dichlorobenzene	U		0.00240	0.00609	1	10/22/2018 22:26	WG1184727
Dichlorodifluoromethane	U		0.000997	0.00305	1	10/22/2018 22:26	WG1184727
1,1-Dichloroethane	U		0.000701	0.00305	1	10/22/2018 22:26	WG1184727
1,2-Dichloroethane	U		0.000579	0.00305	1	10/22/2018 22:26	WG1184727
1,1-Dichloroethene	U		0.000609	0.00305	1	10/22/2018 22:26	WG1184727
cis-1,2-Dichloroethene	0.00515		0.000841	0.00305	1	10/22/2018 22:26	WG1184727
trans-1,2-Dichloroethene	U		0.00174	0.00609	1	10/22/2018 22:26	WG1184727
1,2-Dichloropropane	U		0.00155	0.00609	1	10/24/2018 14:32	WG1185319
1,1-Dichloropropene	U		0.000853	0.00305	1	10/22/2018 22:26	WG1184727
1,3-Dichloropropane	U		0.00213	0.00609	1	10/22/2018 22:26	WG1184727
cis-1,3-Dichloropropene	U		0.000826	0.00305	1	10/22/2018 22:26	WG1184727
trans-1,3-Dichloropropene	U		0.00186	0.00609	1	10/22/2018 22:26	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00171	0.00609	1	10/22/2018 22:26	WG1184727
2,2-Dichloropropane	U		0.000966	0.00305	1	10/22/2018 22:26	WG1184727
Di-isopropyl ether	U		0.000426	0.00122	1	10/22/2018 22:26	WG1184727
Ethylbenzene	U		0.000646	0.00305	1	10/22/2018 22:26	WG1184727
Hexachloro-1,3-butadiene	U		0.0155	0.0305	1	10/22/2018 22:26	WG1184727
2-Hexanone	U		0.0122	0.0305	1	10/22/2018 22:26	WG1184727
n-Hexane	0.00663		0.00129	0.00609	1	10/24/2018 14:32	WG1185319
Iodomethane	U		0.00737	0.0152	1	10/22/2018 22:26	WG1184727
Isopropylbenzene	U		0.00105	0.00305	1	10/22/2018 22:26	WG1184727
p-Isopropyltoluene	U		0.00284	0.00609	1	10/22/2018 22:26	WG1184727
2-Butanone (MEK)	U		0.0152	0.0305	1	10/24/2018 14:32	WG1185319
Methylene Chloride	U		0.00809	0.0305	1	10/22/2018 22:26	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0122	0.0305	1	10/22/2018 22:26	WG1184727

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 13:35

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000359	0.00122	1	10/22/2018 22:26	WG1184727
Naphthalene	U		0.00380	0.0152	1	10/22/2018 22:26	WG1184727
n-Propylbenzene	U		0.00144	0.00609	1	10/22/2018 22:26	WG1184727
Styrene	U		0.00333	0.0152	1	10/22/2018 22:26	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000609	0.00305	1	10/22/2018 22:26	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000475	0.00305	1	10/22/2018 22:26	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000823	0.00305	1	10/22/2018 22:26	WG1184727
Tetrachloroethene	0.0153	JO	0.000853	0.00305	1	10/24/2018 14:32	WG1185319
Toluene	0.00546	J	0.00152	0.00609	1	10/22/2018 22:26	WG1184727
1,2,3-Trichlorobenzene	U		0.000762	0.00305	1	10/22/2018 22:26	WG1184727
1,2,4-Trichlorobenzene	U		0.00587	0.0152	1	10/22/2018 22:26	WG1184727
1,1,1-Trichloroethane	U		0.000335	0.00305	1	10/22/2018 22:26	WG1184727
1,1,2-Trichloroethane	U		0.00108	0.00305	1	10/24/2018 14:32	WG1185319
Trichloroethene	0.00639		0.000487	0.00122	1	10/22/2018 22:26	WG1184727
Trichlorofluoromethane	U		0.000609	0.00305	1	10/22/2018 22:26	WG1184727
1,2,3-Trichloropropane	U		0.00621	0.0152	1	10/22/2018 22:26	WG1184727
1,2,4-Trimethylbenzene	U		0.00141	0.00609	1	10/22/2018 22:26	WG1184727
1,2,3-Trimethylbenzene	U		0.00140	0.00609	1	10/22/2018 22:26	WG1184727
1,3,5-Trimethylbenzene	U		0.00132	0.00609	1	10/22/2018 22:26	WG1184727
Vinyl acetate	U		0.00429	0.0152	1	10/22/2018 22:26	WG1184727
Vinyl chloride	U		0.000832	0.00305	1	10/22/2018 22:26	WG1184727
Xylenes, Total	U		0.00582	0.00792	1	10/22/2018 22:26	WG1184727
(S) Toluene-d8	127			75.0-131		10/22/2018 22:26	WG1184727
(S) Toluene-d8	98.5			75.0-131		10/24/2018 14:32	WG1185319
(S) Dibromofluoromethane	94.8			65.0-129		10/22/2018 22:26	WG1184727
(S) Dibromofluoromethane	116			65.0-129		10/24/2018 14:32	WG1185319
(S) 4-Bromofluorobenzene	88.2			67.0-138		10/22/2018 22:26	WG1184727
(S) 4-Bromofluorobenzene	122			67.0-138		10/24/2018 14:32	WG1185319

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	83.3		1	10/24/2018 13:36	WG1185670

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0173	0.0315	1.05	10/24/2018 14:52	WG1185319
Acrylonitrile	U		0.00241	0.0159	1.06	10/22/2018 22:46	WG1184727
Benzene	U		0.000509	0.00127	1.06	10/22/2018 22:46	WG1184727
Bromobenzene	U		0.00133	0.0159	1.06	10/22/2018 22:46	WG1184727
Bromodichloromethane	U		0.00100	0.00318	1.06	10/22/2018 22:46	WG1184727
Bromochloromethane	U		0.00144	0.00636	1.06	10/22/2018 22:46	WG1184727
Bromoform	U		0.00761	0.0318	1.06	10/22/2018 22:46	WG1184727
Bromomethane	U		0.00471	0.0159	1.06	10/22/2018 22:46	WG1184727
n-Butylbenzene	U		0.00489	0.0159	1.06	10/22/2018 22:46	WG1184727
sec-Butylbenzene	U		0.00322	0.0159	1.06	10/22/2018 22:46	WG1184727
tert-Butylbenzene	U		0.00197	0.00636	1.06	10/22/2018 22:46	WG1184727
Carbon disulfide	U		0.00516	0.0159	1.06	10/22/2018 22:46	WG1184727
Carbon tetrachloride	U		0.00137	0.00636	1.06	10/22/2018 22:46	WG1184727
Chlorobenzene	U		0.000729	0.00318	1.06	10/22/2018 22:46	WG1184727
Chlorodibromomethane	U		0.000573	0.00318	1.06	10/22/2018 22:46	WG1184727
Chloroethane	U		0.00137	0.00636	1.06	10/22/2018 22:46	WG1184727
Chloroform	0.00156	B J	0.000528	0.00318	1.06	10/22/2018 22:46	WG1184727
Chloromethane	U		0.00176	0.0159	1.06	10/22/2018 22:46	WG1184727
2-Chlorotoluene	U		0.00117	0.00318	1.06	10/22/2018 22:46	WG1184727
4-Chlorotoluene	U		0.00144	0.00636	1.06	10/22/2018 22:46	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00649	0.0318	1.06	10/22/2018 22:46	WG1184727
1,2-Dibromoethane	U		0.000667	0.00318	1.06	10/22/2018 22:46	WG1184727
Dibromomethane	U		0.00127	0.00636	1.06	10/22/2018 22:46	WG1184727
1,2-Dichlorobenzene	U		0.00185	0.00636	1.06	10/22/2018 22:46	WG1184727
1,3-Dichlorobenzene	U		0.00216	0.00636	1.06	10/22/2018 22:46	WG1184727
1,4-Dichlorobenzene	U		0.00251	0.00636	1.06	10/22/2018 22:46	WG1184727
Dichlorodifluoromethane	U		0.00104	0.00318	1.06	10/22/2018 22:46	WG1184727
1,1-Dichloroethane	U		0.000732	0.00318	1.06	10/22/2018 22:46	WG1184727
1,2-Dichloroethane	U		0.000605	0.00318	1.06	10/22/2018 22:46	WG1184727
1,1-Dichloroethene	U		0.000636	0.00318	1.06	10/22/2018 22:46	WG1184727
cis-1,2-Dichloroethene	0.00854		0.000877	0.00318	1.06	10/22/2018 22:46	WG1184727
trans-1,2-Dichloroethene	U		0.00182	0.00636	1.06	10/22/2018 22:46	WG1184727
1,2-Dichloropropane	U		0.00160	0.00630	1.05	10/24/2018 14:52	WG1185319
1,1-Dichloropropene	U		0.000891	0.00318	1.06	10/22/2018 22:46	WG1184727
1,3-Dichloropropane	U		0.00223	0.00636	1.06	10/22/2018 22:46	WG1184727
cis-1,3-Dichloropropene	U		0.000863	0.00318	1.06	10/22/2018 22:46	WG1184727
trans-1,3-Dichloropropene	U		0.00194	0.00636	1.06	10/22/2018 22:46	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00178	0.00636	1.06	10/22/2018 22:46	WG1184727
2,2-Dichloropropane	U		0.00101	0.00318	1.06	10/22/2018 22:46	WG1184727
Di-isopropyl ether	U		0.000445	0.00127	1.06	10/22/2018 22:46	WG1184727
Ethylbenzene	U		0.000675	0.00318	1.06	10/22/2018 22:46	WG1184727
Hexachloro-1,3-butadiene	U		0.0162	0.0318	1.06	10/22/2018 22:46	WG1184727
2-Hexanone	U		0.0127	0.0318	1.06	10/22/2018 22:46	WG1184727
n-Hexane	U		0.00133	0.00630	1.05	10/24/2018 14:52	WG1185319
Iodomethane	U		0.00769	0.0159	1.06	10/22/2018 22:46	WG1184727
Isopropylbenzene	U		0.00110	0.00318	1.06	10/22/2018 22:46	WG1184727
p-Isopropyltoluene	U		0.00296	0.00636	1.06	10/22/2018 22:46	WG1184727
2-Butanone (MEK)	U		0.0157	0.0315	1.05	10/24/2018 14:52	WG1185319
Methylene Chloride	U		0.00845	0.0318	1.06	10/22/2018 22:46	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0127	0.0318	1.06	10/22/2018 22:46	WG1184727

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 13:38

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000376	0.00127	1.06	10/22/2018 22:46	WG1184727
Naphthalene	U		0.00397	0.0159	1.06	10/22/2018 22:46	WG1184727
n-Propylbenzene	U		0.00150	0.00636	1.06	10/22/2018 22:46	WG1184727
Styrene	U		0.00347	0.0159	1.06	10/22/2018 22:46	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000636	0.00318	1.06	10/22/2018 22:46	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000496	0.00318	1.06	10/22/2018 22:46	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000859	0.00318	1.06	10/22/2018 22:46	WG1184727
Tetrachloroethene	0.00703	JO	0.000882	0.00315	1.05	10/24/2018 14:52	WG1185319
Toluene	0.00302	J	0.00158	0.00636	1.06	10/22/2018 22:46	WG1184727
1,2,3-Trichlorobenzene	U		0.000795	0.00318	1.06	10/22/2018 22:46	WG1184727
1,2,4-Trichlorobenzene	U		0.00613	0.0159	1.06	10/22/2018 22:46	WG1184727
1,1,1-Trichloroethane	U		0.000350	0.00318	1.06	10/22/2018 22:46	WG1184727
1,1,2-Trichloroethane	U		0.00111	0.00315	1.05	10/24/2018 14:52	WG1185319
Trichloroethene	0.00919		0.000509	0.00127	1.06	10/22/2018 22:46	WG1184727
Trichlorofluoromethane	U		0.000636	0.00318	1.06	10/22/2018 22:46	WG1184727
1,2,3-Trichloropropane	U		0.00649	0.0159	1.06	10/22/2018 22:46	WG1184727
1,2,4-Trimethylbenzene	U		0.00148	0.00636	1.06	10/22/2018 22:46	WG1184727
1,2,3-Trimethylbenzene	U		0.00146	0.00636	1.06	10/22/2018 22:46	WG1184727
1,3,5-Trimethylbenzene	U		0.00137	0.00636	1.06	10/22/2018 22:46	WG1184727
Vinyl acetate	U		0.00448	0.0159	1.06	10/22/2018 22:46	WG1184727
Vinyl chloride	U		0.000869	0.00318	1.06	10/22/2018 22:46	WG1184727
Xylenes, Total	U		0.00609	0.00827	1.06	10/22/2018 22:46	WG1184727
(S) Toluene-d8	124			75.0-131		10/22/2018 22:46	WG1184727
(S) Toluene-d8	98.9			75.0-131		10/24/2018 14:52	WG1185319
(S) Dibromofluoromethane	85.6			65.0-129		10/22/2018 22:46	WG1184727
(S) Dibromofluoromethane	116			65.0-129		10/24/2018 14:52	WG1185319
(S) 4-Bromofluorobenzene	88.2			67.0-138		10/22/2018 22:46	WG1184727
(S) 4-Bromofluorobenzene	120			67.0-138		10/24/2018 14:52	WG1185319

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	87.6		1	10/24/2018 14:00	WG1185671

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0220	0.0402	1.41	10/24/2018 15:12	WG1185319
Acrylonitrile	U		0.00306	0.0201	1.41	10/22/2018 23:06	WG1184727
Benzene	U		0.000644	0.00161	1.41	10/22/2018 23:06	WG1184727
Bromobenzene	U		0.00169	0.0201	1.41	10/22/2018 23:06	WG1184727
Bromodichloromethane	U		0.00127	0.00402	1.41	10/22/2018 23:06	WG1184727
Bromochloromethane	U		0.00181	0.00805	1.41	10/22/2018 23:06	WG1184727
Bromoform	U		0.00962	0.0402	1.41	10/22/2018 23:06	WG1184727
Bromomethane	U		0.00596	0.0201	1.41	10/22/2018 23:06	WG1184727
n-Butylbenzene	U		0.00617	0.0201	1.41	10/22/2018 23:06	WG1184727
sec-Butylbenzene	U		0.00407	0.0201	1.41	10/22/2018 23:06	WG1184727
tert-Butylbenzene	U		0.00249	0.00805	1.41	10/22/2018 23:06	WG1184727
Carbon disulfide	U		0.00653	0.0201	1.41	10/22/2018 23:06	WG1184727
Carbon tetrachloride	U		0.00173	0.00805	1.41	10/22/2018 23:06	WG1184727
Chlorobenzene	U		0.000922	0.00402	1.41	10/22/2018 23:06	WG1184727
Chlorodibromomethane	U		0.000724	0.00402	1.41	10/22/2018 23:06	WG1184727
Chloroethane	U		0.00173	0.00805	1.41	10/22/2018 23:06	WG1184727
Chloroform	0.00180	B J	0.000668	0.00402	1.41	10/22/2018 23:06	WG1184727
Chloromethane	U		0.00224	0.0201	1.41	10/22/2018 23:06	WG1184727
2-Chlorotoluene	U		0.00148	0.00402	1.41	10/22/2018 23:06	WG1184727
4-Chlorotoluene	U		0.00181	0.00805	1.41	10/22/2018 23:06	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00821	0.0402	1.41	10/22/2018 23:06	WG1184727
1,2-Dibromoethane	U		0.000845	0.00402	1.41	10/22/2018 23:06	WG1184727
Dibromomethane	U		0.00161	0.00805	1.41	10/22/2018 23:06	WG1184727
1,2-Dichlorobenzene	U		0.00233	0.00805	1.41	10/22/2018 23:06	WG1184727
1,3-Dichlorobenzene	U		0.00274	0.00805	1.41	10/22/2018 23:06	WG1184727
1,4-Dichlorobenzene	U		0.00317	0.00805	1.41	10/22/2018 23:06	WG1184727
Dichlorodifluoromethane	U		0.00131	0.00402	1.41	10/22/2018 23:06	WG1184727
1,1-Dichloroethane	U		0.000926	0.00402	1.41	10/22/2018 23:06	WG1184727
1,2-Dichloroethane	U		0.000765	0.00402	1.41	10/22/2018 23:06	WG1184727
1,1-Dichloroethene	U		0.000805	0.00402	1.41	10/22/2018 23:06	WG1184727
cis-1,2-Dichloroethene	0.00620		0.00111	0.00402	1.41	10/22/2018 23:06	WG1184727
trans-1,2-Dichloroethene	U		0.00231	0.00805	1.41	10/22/2018 23:06	WG1184727
1,2-Dichloropropane	U		0.00204	0.00805	1.41	10/24/2018 15:12	WG1185319
1,1-Dichloropropene	U		0.00113	0.00402	1.41	10/22/2018 23:06	WG1184727
1,3-Dichloropropane	U		0.00282	0.00805	1.41	10/22/2018 23:06	WG1184727
cis-1,3-Dichloropropene	U		0.00109	0.00402	1.41	10/22/2018 23:06	WG1184727
trans-1,3-Dichloropropene	U		0.00247	0.00805	1.41	10/22/2018 23:06	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00225	0.00805	1.41	10/22/2018 23:06	WG1184727
2,2-Dichloropropane	U		0.00128	0.00402	1.41	10/22/2018 23:06	WG1184727
Di-isopropyl ether	U		0.000564	0.00161	1.41	10/22/2018 23:06	WG1184727
Ethylbenzene	U		0.000853	0.00402	1.41	10/22/2018 23:06	WG1184727
Hexachloro-1,3-butadiene	U		0.0204	0.0402	1.41	10/22/2018 23:06	WG1184727
2-Hexanone	U		0.0161	0.0402	1.41	10/22/2018 23:06	WG1184727
n-Hexane	U		0.00170	0.00805	1.41	10/24/2018 15:12	WG1185319
Iodomethane	U		0.00974	0.0201	1.41	10/22/2018 23:06	WG1184727
Isopropylbenzene	U		0.00139	0.00402	1.41	10/22/2018 23:06	WG1184727
p-Isopropyltoluene	U		0.00374	0.00805	1.41	10/22/2018 23:06	WG1184727
2-Butanone (MEK)	U		0.0201	0.0402	1.41	10/24/2018 15:12	WG1185319
Methylene Chloride	U		0.0107	0.0402	1.41	10/22/2018 23:06	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0161	0.0402	1.41	10/22/2018 23:06	WG1184727

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 13:39

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000475	0.00161	1.41	10/22/2018 23:06	WG1184727
Naphthalene	U		0.00502	0.0201	1.41	10/22/2018 23:06	WG1184727
n-Propylbenzene	U		0.00189	0.00805	1.41	10/22/2018 23:06	WG1184727
Styrene	U		0.00439	0.0201	1.41	10/22/2018 23:06	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000805	0.00402	1.41	10/22/2018 23:06	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000628	0.00402	1.41	10/22/2018 23:06	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.00109	0.00402	1.41	10/22/2018 23:06	WG1184727
Tetrachloroethene	0.00843	JO	0.00113	0.00402	1.41	10/24/2018 15:12	WG1185319
Toluene	U		0.00201	0.00805	1.41	10/22/2018 23:06	WG1184727
1,2,3-Trichlorobenzene	U		0.00101	0.00402	1.41	10/22/2018 23:06	WG1184727
1,2,4-Trichlorobenzene	U		0.00776	0.0201	1.41	10/22/2018 23:06	WG1184727
1,1,1-Trichloroethane	U		0.000443	0.00402	1.41	10/22/2018 23:06	WG1184727
1,1,2-Trichloroethane	U		0.00142	0.00402	1.41	10/24/2018 15:12	WG1185319
Trichloroethene	0.00315		0.000644	0.00161	1.41	10/22/2018 23:06	WG1184727
Trichlorofluoromethane	U		0.000805	0.00402	1.41	10/22/2018 23:06	WG1184727
1,2,3-Trichloropropane	U		0.00821	0.0201	1.41	10/22/2018 23:06	WG1184727
1,2,4-Trimethylbenzene	U		0.00187	0.00805	1.41	10/22/2018 23:06	WG1184727
1,2,3-Trimethylbenzene	U		0.00185	0.00805	1.41	10/22/2018 23:06	WG1184727
1,3,5-Trimethylbenzene	U		0.00173	0.00805	1.41	10/22/2018 23:06	WG1184727
Vinyl acetate	U		0.00566	0.0201	1.41	10/22/2018 23:06	WG1184727
Vinyl chloride	U		0.00110	0.00402	1.41	10/22/2018 23:06	WG1184727
Xylenes, Total	U		0.00769	0.0105	1.41	10/22/2018 23:06	WG1184727
(S) Toluene-d8	125			75.0-131		10/22/2018 23:06	WG1184727
(S) Toluene-d8	99.7			75.0-131		10/24/2018 15:12	WG1185319
(S) Dibromofluoromethane	94.3			65.0-129		10/22/2018 23:06	WG1184727
(S) Dibromofluoromethane	115			65.0-129		10/24/2018 15:12	WG1185319
(S) 4-Bromofluorobenzene	90.6			67.0-138		10/22/2018 23:06	WG1184727
(S) 4-Bromofluorobenzene	121			67.0-138		10/24/2018 15:12	WG1185319

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

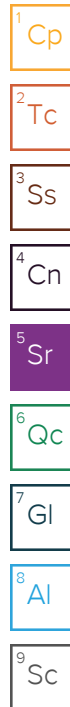


Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.0		1	10/24/2018 14:00	WG1185671

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.183	0.333	11.6	10/24/2018 18:12	WG1185319
Acrylonitrile	U		0.00253	0.0167	1.16	10/22/2018 23:27	WG1184727
Benzene	U		0.000534	0.00133	1.16	10/22/2018 23:27	WG1184727
Bromobenzene	U		0.00140	0.0167	1.16	10/22/2018 23:27	WG1184727
Bromodichloromethane	U		0.00105	0.00333	1.16	10/22/2018 23:27	WG1184727
Bromochloromethane	U		0.00151	0.00667	1.16	10/22/2018 23:27	WG1184727
Bromoform	U		0.00798	0.0333	1.16	10/22/2018 23:27	WG1184727
Bromomethane	U		0.00493	0.0167	1.16	10/22/2018 23:27	WG1184727
n-Butylbenzene	U		0.00512	0.0167	1.16	10/22/2018 23:27	WG1184727
sec-Butylbenzene	U		0.00337	0.0167	1.16	10/22/2018 23:27	WG1184727
tert-Butylbenzene	U		0.00207	0.00667	1.16	10/22/2018 23:27	WG1184727
Carbon disulfide	U		0.00542	0.0167	1.16	10/22/2018 23:27	WG1184727
Carbon tetrachloride	U		0.00144	0.00667	1.16	10/22/2018 23:27	WG1184727
Chlorobenzene	U		0.000765	0.00333	1.16	10/22/2018 23:27	WG1184727
Chlorodibromomethane	U		0.000600	0.00333	1.16	10/22/2018 23:27	WG1184727
Chloroethane	U		0.00144	0.00667	1.16	10/22/2018 23:27	WG1184727
Chloroform	0.00182	B J	0.000553	0.00333	1.16	10/22/2018 23:27	WG1184727
Chloromethane	U		0.00185	0.0167	1.16	10/22/2018 23:27	WG1184727
2-Chlorotoluene	U		0.00123	0.00333	1.16	10/22/2018 23:27	WG1184727
4-Chlorotoluene	U		0.00151	0.00667	1.16	10/22/2018 23:27	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00681	0.0333	1.16	10/22/2018 23:27	WG1184727
1,2-Dibromoethane	U		0.000700	0.00333	1.16	10/22/2018 23:27	WG1184727
Dibromomethane	U		0.00133	0.00667	1.16	10/22/2018 23:27	WG1184727
1,2-Dichlorobenzene	U		0.00193	0.00667	1.16	10/22/2018 23:27	WG1184727
1,3-Dichlorobenzene	U		0.00227	0.00667	1.16	10/22/2018 23:27	WG1184727
1,4-Dichlorobenzene	U		0.00262	0.00667	1.16	10/22/2018 23:27	WG1184727
Dichlorodifluoromethane	U		0.00109	0.00333	1.16	10/22/2018 23:27	WG1184727
1,1-Dichloroethane	U		0.000767	0.00333	1.16	10/22/2018 23:27	WG1184727
1,2-Dichloroethane	U		0.000634	0.00333	1.16	10/22/2018 23:27	WG1184727
1,1-Dichloroethene	U		0.000667	0.00333	1.16	10/22/2018 23:27	WG1184727
cis-1,2-Dichloroethene	U		0.000920	0.00333	1.16	10/22/2018 23:27	WG1184727
trans-1,2-Dichloroethene	U		0.00191	0.00667	1.16	10/22/2018 23:27	WG1184727
1,2-Dichloropropane	U		0.0169	0.0667	11.6	10/24/2018 18:12	WG1185319
1,1-Dichloropropene	U		0.000934	0.00333	1.16	10/22/2018 23:27	WG1184727
1,3-Dichloropropane	U		0.00233	0.00667	1.16	10/22/2018 23:27	WG1184727
cis-1,3-Dichloropropene	U		0.000904	0.00333	1.16	10/22/2018 23:27	WG1184727
trans-1,3-Dichloropropene	U		0.00204	0.00667	1.16	10/22/2018 23:27	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00186	0.00667	1.16	10/22/2018 23:27	WG1184727
2,2-Dichloropropane	U		0.00106	0.00333	1.16	10/22/2018 23:27	WG1184727
Di-isopropyl ether	U		0.000467	0.00133	1.16	10/22/2018 23:27	WG1184727
Ethylbenzene	U		0.000707	0.00333	1.16	10/22/2018 23:27	WG1184727
Hexachloro-1,3-butadiene	U		0.0169	0.0333	1.16	10/22/2018 23:27	WG1184727
2-Hexanone	U		0.0133	0.0333	1.16	10/22/2018 23:27	WG1184727
n-Hexane	U		0.0141	0.0667	11.6	10/24/2018 18:12	WG1185319
Iodomethane	U		0.00807	0.0167	1.16	10/22/2018 23:27	WG1184727
Isopropylbenzene	U		0.00115	0.00333	1.16	10/22/2018 23:27	WG1184727
p-Isopropyltoluene	U		0.00310	0.00667	1.16	10/22/2018 23:27	WG1184727
2-Butanone (MEK)	U		0.167	0.333	11.6	10/24/2018 18:12	WG1185319
Methylene Chloride	U		0.00885	0.0333	1.16	10/22/2018 23:27	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0133	0.0333	1.16	10/22/2018 23:27	WG1184727





Collected date/time: 10/18/18 13:48

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000393	0.00133	1.16	10/22/2018 23:27	WG1184727
Naphthalene	U		0.00416	0.0167	1.16	10/22/2018 23:27	WG1184727
n-Propylbenzene	U		0.00158	0.00667	1.16	10/22/2018 23:27	WG1184727
Styrene	U		0.00365	0.0167	1.16	10/22/2018 23:27	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000667	0.00333	1.16	10/22/2018 23:27	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000520	0.00333	1.16	10/22/2018 23:27	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000900	0.00333	1.16	10/22/2018 23:27	WG1184727
Tetrachloroethene	1.79	JO	0.00934	0.0333	11.6	10/24/2018 18:12	WG1185319
Toluene	0.00296	J	0.00167	0.00667	1.16	10/22/2018 23:27	WG1184727
1,2,3-Trichlorobenzene	U		0.000834	0.00333	1.16	10/22/2018 23:27	WG1184727
1,2,4-Trichlorobenzene	U		0.00643	0.0167	1.16	10/22/2018 23:27	WG1184727
1,1,1-Trichloroethane	U		0.000367	0.00333	1.16	10/22/2018 23:27	WG1184727
1,1,2-Trichloroethane	U		0.0117	0.0333	11.6	10/24/2018 18:12	WG1185319
Trichloroethene	0.00212		0.000534	0.00133	1.16	10/22/2018 23:27	WG1184727
Trichlorofluoromethane	U		0.000667	0.00333	1.16	10/22/2018 23:27	WG1184727
1,2,3-Trichloropropane	U		0.00681	0.0167	1.16	10/22/2018 23:27	WG1184727
1,2,4-Trimethylbenzene	U		0.00154	0.00667	1.16	10/22/2018 23:27	WG1184727
1,2,3-Trimethylbenzene	U		0.00153	0.00667	1.16	10/22/2018 23:27	WG1184727
1,3,5-Trimethylbenzene	U		0.00144	0.00667	1.16	10/22/2018 23:27	WG1184727
Vinyl acetate	U		0.00469	0.0167	1.16	10/22/2018 23:27	WG1184727
Vinyl chloride	U		0.000911	0.00333	1.16	10/22/2018 23:27	WG1184727
Xylenes, Total	U		0.00637	0.00867	1.16	10/22/2018 23:27	WG1184727
(S) Toluene-d8	122			75.0-131		10/22/2018 23:27	WG1184727
(S) Toluene-d8	97.5			75.0-131		10/24/2018 18:12	WG1185319
(S) Dibromofluoromethane	86.2			65.0-129		10/22/2018 23:27	WG1184727
(S) Dibromofluoromethane	119			65.0-129		10/24/2018 18:12	WG1185319
(S) 4-Bromofluorobenzene	91.1			67.0-138		10/22/2018 23:27	WG1184727
(S) 4-Bromofluorobenzene	123			67.0-138		10/24/2018 18:12	WG1185319

Sample Narrative:

L1036473-26 WG1185319, WG1184727: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036473-26 WG1185319, WG1184727: Not all compounds reportable at lower dilution.

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	10/24/2018 14:00	WG1185671

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.611	1.11	40	10/24/2018 19:12	WG1185319
Acrylonitrile	U		0.00212	0.0139	1	10/22/2018 23:47	WG1184727
Benzene	U		0.000446	0.00111	1	10/22/2018 23:47	WG1184727
Bromobenzene	U		0.00117	0.0139	1	10/22/2018 23:47	WG1184727
Bromodichloromethane	U		0.000878	0.00279	1	10/22/2018 23:47	WG1184727
Bromochloromethane	U		0.00126	0.00557	1	10/22/2018 23:47	WG1184727
Bromoform	U		0.00667	0.0279	1	10/22/2018 23:47	WG1184727
Bromomethane	U		0.00412	0.0139	1	10/22/2018 23:47	WG1184727
n-Butylbenzene	U		0.00428	0.0139	1	10/22/2018 23:47	WG1184727
sec-Butylbenzene	U		0.00282	0.0139	1	10/22/2018 23:47	WG1184727
tert-Butylbenzene	U		0.00173	0.00557	1	10/22/2018 23:47	WG1184727
Carbon disulfide	U		0.00453	0.0139	1	10/22/2018 23:47	WG1184727
Carbon tetrachloride	U		0.00120	0.00557	1	10/22/2018 23:47	WG1184727
Chlorobenzene	U		0.000639	0.00279	1	10/22/2018 23:47	WG1184727
Chlorodibromomethane	U		0.000502	0.00279	1	10/22/2018 23:47	WG1184727
Chloroethane	U		0.00120	0.00557	1	10/22/2018 23:47	WG1184727
Chloroform	0.00109	B J	0.000463	0.00279	1	10/22/2018 23:47	WG1184727
Chloromethane	U		0.00155	0.0139	1	10/22/2018 23:47	WG1184727
2-Chlorotoluene	U		0.00103	0.00279	1	10/22/2018 23:47	WG1184727
4-Chlorotoluene	U		0.00126	0.00557	1	10/22/2018 23:47	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00568	0.0279	1	10/22/2018 23:47	WG1184727
1,2-Dibromoethane	U		0.000585	0.00279	1	10/22/2018 23:47	WG1184727
Dibromomethane	U		0.00111	0.00557	1	10/22/2018 23:47	WG1184727
1,2-Dichlorobenzene	U		0.00162	0.00557	1	10/22/2018 23:47	WG1184727
1,3-Dichlorobenzene	U		0.00189	0.00557	1	10/22/2018 23:47	WG1184727
1,4-Dichlorobenzene	U		0.00220	0.00557	1	10/22/2018 23:47	WG1184727
Dichlorodifluoromethane	U		0.000912	0.00279	1	10/22/2018 23:47	WG1184727
1,1-Dichloroethane	U		0.000641	0.00279	1	10/22/2018 23:47	WG1184727
1,2-Dichloroethane	U		0.000529	0.00279	1	10/22/2018 23:47	WG1184727
1,1-Dichloroethene	U		0.000557	0.00279	1	10/22/2018 23:47	WG1184727
cis-1,2-Dichloroethene	0.0195		0.000769	0.00279	1	10/22/2018 23:47	WG1184727
trans-1,2-Dichloroethene	U		0.00159	0.00557	1	10/22/2018 23:47	WG1184727
1,2-Dichloropropane	U		0.0566	0.223	40	10/24/2018 19:12	WG1185319
1,1-Dichloropropene	U		0.000780	0.00279	1	10/22/2018 23:47	WG1184727
1,3-Dichloropropane	U		0.00195	0.00557	1	10/22/2018 23:47	WG1184727
cis-1,3-Dichloropropene	U		0.000756	0.00279	1	10/22/2018 23:47	WG1184727
trans-1,3-Dichloropropene	U		0.00171	0.00557	1	10/22/2018 23:47	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00156	0.00557	1	10/22/2018 23:47	WG1184727
2,2-Dichloropropane	U		0.000884	0.00279	1	10/22/2018 23:47	WG1184727
Di-isopropyl ether	U		0.000390	0.00111	1	10/22/2018 23:47	WG1184727
Ethylbenzene	U		0.000591	0.00279	1	10/22/2018 23:47	WG1184727
Hexachloro-1,3-butadiene	U		0.0142	0.0279	1	10/22/2018 23:47	WG1184727
2-Hexanone	U		0.0111	0.0279	1	10/22/2018 23:47	WG1184727
n-Hexane	U		0.0473	0.223	40	10/24/2018 19:12	WG1185319
Iodomethane	U		0.00674	0.0139	1	10/22/2018 23:47	WG1184727
Isopropylbenzene	U		0.000962	0.00279	1	10/22/2018 23:47	WG1184727
p-Isopropyltoluene	U		0.00260	0.00557	1	10/22/2018 23:47	WG1184727
2-Butanone (MEK)	U		0.557	1.11	40	10/24/2018 19:12	WG1185319
Methylene Chloride	U		0.00740	0.0279	1	10/22/2018 23:47	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0279	1	10/22/2018 23:47	WG1184727

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		0.000329	0.00111	1	10/22/2018 23:47	WG1184727
Naphthalene	U		0.00348	0.0139	1	10/22/2018 23:47	WG1184727
n-Propylbenzene	U		0.00132	0.00557	1	10/22/2018 23:47	WG1184727
Styrene	U		0.00304	0.0139	1	10/22/2018 23:47	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000557	0.00279	1	10/22/2018 23:47	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000435	0.00279	1	10/22/2018 23:47	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000752	0.00279	1	10/22/2018 23:47	WG1184727
Tetrachloroethene	5.70	JO	0.0312	0.111	40	10/24/2018 19:12	WG1185319
Toluene	0.00330	J	0.00139	0.00557	1	10/22/2018 23:47	WG1184727
1,2,3-Trichlorobenzene	U		0.000697	0.00279	1	10/22/2018 23:47	WG1184727
1,2,4-Trichlorobenzene	U		0.00537	0.0139	1	10/22/2018 23:47	WG1184727
1,1,1-Trichloroethane	U		0.000307	0.00279	1	10/22/2018 23:47	WG1184727
1,1,2-Trichloroethane	U		0.0393	0.111	40	10/24/2018 19:12	WG1185319
Trichloroethene	0.111		0.000446	0.00111	1	10/22/2018 23:47	WG1184727
Trichlorofluoromethane	U		0.000557	0.00279	1	10/22/2018 23:47	WG1184727
1,2,3-Trichloropropane	U		0.00568	0.0139	1	10/22/2018 23:47	WG1184727
1,2,4-Trimethylbenzene	U		0.00129	0.00557	1	10/22/2018 23:47	WG1184727
1,2,3-Trimethylbenzene	U		0.00128	0.00557	1	10/22/2018 23:47	WG1184727
1,3,5-Trimethylbenzene	U		0.00120	0.00557	1	10/22/2018 23:47	WG1184727
Vinyl acetate	U		0.00392	0.0139	1	10/22/2018 23:47	WG1184727
Vinyl chloride	U		0.000761	0.00279	1	10/22/2018 23:47	WG1184727
Xylenes, Total	U		0.00533	0.00725	1	10/22/2018 23:47	WG1184727
(S) Toluene-d8	123			75.0-131		10/22/2018 23:47	WG1184727
(S) Toluene-d8	98.5			75.0-131		10/24/2018 19:12	WG1185319
(S) Dibromofluoromethane	92.9			65.0-129		10/22/2018 23:47	WG1184727
(S) Dibromofluoromethane	119			65.0-129		10/24/2018 19:12	WG1185319
(S) 4-Bromofluorobenzene	89.5			67.0-138		10/22/2018 23:47	WG1184727
(S) 4-Bromofluorobenzene	124			67.0-138		10/24/2018 19:12	WG1185319

Sample Narrative:

L1036473-27 WG1185319, WG1184727: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036473-27 WG1185319, WG1184727: Not all compounds reportable at lower dilution.

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	83.2		1	10/24/2018 14:00	WG1185671

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0165	0.0300	1	10/24/2018 15:32	WG1185319
Acrylonitrile	U		0.00228	0.0150	1	10/23/2018 00:07	WG1184727
Benzene	U		0.000481	0.00120	1	10/23/2018 00:07	WG1184727
Bromobenzene	U		0.00126	0.0150	1	10/23/2018 00:07	WG1184727
Bromodichloromethane	U		0.000947	0.00300	1	10/23/2018 00:07	WG1184727
Bromochloromethane	U		0.00136	0.00601	1	10/23/2018 00:07	WG1184727
Bromoform	U		0.00719	0.0300	1	10/23/2018 00:07	WG1184727
Bromomethane	U		0.00445	0.0150	1	10/23/2018 00:07	WG1184727
n-Butylbenzene	U		0.00462	0.0150	1	10/23/2018 00:07	WG1184727
sec-Butylbenzene	U		0.00304	0.0150	1	10/23/2018 00:07	WG1184727
tert-Butylbenzene	U		0.00186	0.00601	1	10/23/2018 00:07	WG1184727
Carbon disulfide	U		0.00488	0.0150	1	10/23/2018 00:07	WG1184727
Carbon tetrachloride	U		0.00130	0.00601	1	10/23/2018 00:07	WG1184727
Chlorobenzene	U		0.000689	0.00300	1	10/23/2018 00:07	WG1184727
Chlorodibromomethane	U		0.000541	0.00300	1	10/23/2018 00:07	WG1184727
Chloroethane	U		0.00130	0.00601	1	10/23/2018 00:07	WG1184727
Chloroform	0.00132	B J	0.000499	0.00300	1	10/23/2018 00:07	WG1184727
Chloromethane	U		0.00167	0.0150	1	10/23/2018 00:07	WG1184727
2-Chlorotoluene	U		0.00111	0.00300	1	10/23/2018 00:07	WG1184727
4-Chlorotoluene	U		0.00136	0.00601	1	10/23/2018 00:07	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00613	0.0300	1	10/23/2018 00:07	WG1184727
1,2-Dibromoethane	U		0.000631	0.00300	1	10/23/2018 00:07	WG1184727
Dibromomethane	U		0.00120	0.00601	1	10/23/2018 00:07	WG1184727
1,2-Dichlorobenzene	U		0.00174	0.00601	1	10/23/2018 00:07	WG1184727
1,3-Dichlorobenzene	U		0.00204	0.00601	1	10/23/2018 00:07	WG1184727
1,4-Dichlorobenzene	U		0.00237	0.00601	1	10/23/2018 00:07	WG1184727
Dichlorodifluoromethane	U		0.000983	0.00300	1	10/23/2018 00:07	WG1184727
1,1-Dichloroethane	U		0.000691	0.00300	1	10/23/2018 00:07	WG1184727
1,2-Dichloroethane	U		0.000571	0.00300	1	10/23/2018 00:07	WG1184727
1,1-Dichloroethene	U		0.000601	0.00300	1	10/23/2018 00:07	WG1184727
cis-1,2-Dichloroethene	U		0.000829	0.00300	1	10/23/2018 00:07	WG1184727
trans-1,2-Dichloroethene	U		0.00172	0.00601	1	10/23/2018 00:07	WG1184727
1,2-Dichloropropane	U		0.00153	0.00601	1	10/24/2018 15:32	WG1185319
1,1-Dichloropropene	U		0.000841	0.00300	1	10/23/2018 00:07	WG1184727
1,3-Dichloropropane	U		0.00210	0.00601	1	10/23/2018 00:07	WG1184727
cis-1,3-Dichloropropene	U		0.000815	0.00300	1	10/23/2018 00:07	WG1184727
trans-1,3-Dichloropropene	U		0.00184	0.00601	1	10/23/2018 00:07	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00168	0.00601	1	10/23/2018 00:07	WG1184727
2,2-Dichloropropane	U		0.000953	0.00300	1	10/23/2018 00:07	WG1184727
Di-isopropyl ether	U		0.000421	0.00120	1	10/23/2018 00:07	WG1184727
Ethylbenzene	U		0.000637	0.00300	1	10/23/2018 00:07	WG1184727
Hexachloro-1,3-butadiene	U		0.0153	0.0300	1	10/23/2018 00:07	WG1184727
2-Hexanone	U		0.0120	0.0300	1	10/23/2018 00:07	WG1184727
n-Hexane	U		0.00127	0.00601	1	10/24/2018 15:32	WG1185319
Iodomethane	U		0.00727	0.0150	1	10/23/2018 00:07	WG1184727
Isopropylbenzene	U		0.00104	0.00300	1	10/23/2018 00:07	WG1184727
p-Isopropyltoluene	U		0.00280	0.00601	1	10/23/2018 00:07	WG1184727
2-Butanone (MEK)	U		0.0150	0.0300	1	10/24/2018 15:32	WG1185319
Methylene Chloride	U		0.00798	0.0300	1	10/23/2018 00:07	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0300	1	10/23/2018 00:07	WG1184727

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 14:43

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000355	0.00120	1	10/23/2018 00:07	WG1184727
Naphthalene	U		0.00375	0.0150	1	10/23/2018 00:07	WG1184727
n-Propylbenzene	U		0.00142	0.00601	1	10/23/2018 00:07	WG1184727
Styrene	U		0.00328	0.0150	1	10/23/2018 00:07	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000601	0.00300	1	10/23/2018 00:07	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000469	0.00300	1	10/23/2018 00:07	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000811	0.00300	1	10/23/2018 00:07	WG1184727
Tetrachloroethene	0.00171	J JO	0.000841	0.00300	1	10/24/2018 15:32	WG1185319
Toluene	U		0.00150	0.00601	1	10/23/2018 00:07	WG1184727
1,2,3-Trichlorobenzene	U		0.000751	0.00300	1	10/23/2018 00:07	WG1184727
1,2,4-Trichlorobenzene	U		0.00579	0.0150	1	10/23/2018 00:07	WG1184727
1,1,1-Trichloroethane	U		0.000331	0.00300	1	10/23/2018 00:07	WG1184727
1,1,2-Trichloroethane	U		0.00106	0.00300	1	10/24/2018 15:32	WG1185319
Trichloroethene	U		0.000481	0.00120	1	10/23/2018 00:07	WG1184727
Trichlorofluoromethane	U		0.000601	0.00300	1	10/23/2018 00:07	WG1184727
1,2,3-Trichloropropane	U		0.00613	0.0150	1	10/23/2018 00:07	WG1184727
1,2,4-Trimethylbenzene	U		0.00139	0.00601	1	10/23/2018 00:07	WG1184727
1,2,3-Trimethylbenzene	U		0.00138	0.00601	1	10/23/2018 00:07	WG1184727
1,3,5-Trimethylbenzene	U		0.00130	0.00601	1	10/23/2018 00:07	WG1184727
Vinyl acetate	U		0.00423	0.0150	1	10/23/2018 00:07	WG1184727
Vinyl chloride	U		0.000821	0.00300	1	10/23/2018 00:07	WG1184727
Xylenes, Total	U		0.00574	0.00781	1	10/23/2018 00:07	WG1184727
(S) Toluene-d8	123			75.0-131		10/23/2018 00:07	WG1184727
(S) Toluene-d8	98.6			75.0-131		10/24/2018 15:32	WG1185319
(S) Dibromofluoromethane	91.8			65.0-129		10/23/2018 00:07	WG1184727
(S) Dibromofluoromethane	116			65.0-129		10/24/2018 15:32	WG1185319
(S) 4-Bromofluorobenzene	89.5			67.0-138		10/23/2018 00:07	WG1184727
(S) 4-Bromofluorobenzene	122			67.0-138		10/24/2018 15:32	WG1185319

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	91.7		1	10/24/2018 14:00	WG1185671

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0149	0.0273	1	10/24/2018 15:52	WG1185319
Acrylonitrile	U		0.00207	0.0136	1	10/23/2018 00:28	WG1184727
Benzene	U		0.000436	0.00109	1	10/23/2018 00:28	WG1184727
Bromobenzene	U		0.00115	0.0136	1	10/23/2018 00:28	WG1184727
Bromodichloromethane	U		0.000859	0.00273	1	10/23/2018 00:28	WG1184727
Bromochloromethane	U		0.00123	0.00545	1	10/23/2018 00:28	WG1184727
Bromoform	U		0.00652	0.0273	1	10/23/2018 00:28	WG1184727
Bromomethane	U		0.00404	0.0136	1	10/23/2018 00:28	WG1184727
n-Butylbenzene	U		0.00419	0.0136	1	10/23/2018 00:28	WG1184727
sec-Butylbenzene	U		0.00276	0.0136	1	10/23/2018 00:28	WG1184727
tert-Butylbenzene	U		0.00169	0.00545	1	10/23/2018 00:28	WG1184727
Carbon disulfide	U		0.00443	0.0136	1	10/23/2018 00:28	WG1184727
Carbon tetrachloride	U		0.00118	0.00545	1	10/23/2018 00:28	WG1184727
Chlorobenzene	U		0.000625	0.00273	1	10/23/2018 00:28	WG1184727
Chlorodibromomethane	U		0.000491	0.00273	1	10/23/2018 00:28	WG1184727
Chloroethane	U		0.00118	0.00545	1	10/23/2018 00:28	WG1184727
Chloroform	0.00101	B J	0.000453	0.00273	1	10/23/2018 00:28	WG1184727
Chloromethane	U		0.00152	0.0136	1	10/23/2018 00:28	WG1184727
2-Chlorotoluene	U		0.00100	0.00273	1	10/23/2018 00:28	WG1184727
4-Chlorotoluene	U		0.00123	0.00545	1	10/23/2018 00:28	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00556	0.0273	1	10/23/2018 00:28	WG1184727
1,2-Dibromoethane	U		0.000573	0.00273	1	10/23/2018 00:28	WG1184727
Dibromomethane	U		0.00109	0.00545	1	10/23/2018 00:28	WG1184727
1,2-Dichlorobenzene	U		0.00158	0.00545	1	10/23/2018 00:28	WG1184727
1,3-Dichlorobenzene	U		0.00185	0.00545	1	10/23/2018 00:28	WG1184727
1,4-Dichlorobenzene	U		0.00215	0.00545	1	10/23/2018 00:28	WG1184727
Dichlorodifluoromethane	U		0.000892	0.00273	1	10/23/2018 00:28	WG1184727
1,1-Dichloroethane	U		0.000627	0.00273	1	10/23/2018 00:28	WG1184727
1,2-Dichloroethane	U		0.000518	0.00273	1	10/23/2018 00:28	WG1184727
1,1-Dichloroethene	U		0.000545	0.00273	1	10/23/2018 00:28	WG1184727
cis-1,2-Dichloroethene	U		0.000753	0.00273	1	10/23/2018 00:28	WG1184727
trans-1,2-Dichloroethene	U		0.00156	0.00545	1	10/23/2018 00:28	WG1184727
1,2-Dichloropropane	U		0.00139	0.00545	1	10/24/2018 15:52	WG1185319
1,1-Dichloropropene	U		0.000764	0.00273	1	10/23/2018 00:28	WG1184727
1,3-Dichloropropane	U		0.00191	0.00545	1	10/23/2018 00:28	WG1184727
cis-1,3-Dichloropropene	U		0.000740	0.00273	1	10/23/2018 00:28	WG1184727
trans-1,3-Dichloropropene	U		0.00167	0.00545	1	10/23/2018 00:28	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00153	0.00545	1	10/23/2018 00:28	WG1184727
2,2-Dichloropropane	U		0.000865	0.00273	1	10/23/2018 00:28	WG1184727
Di-isopropyl ether	U		0.000382	0.00109	1	10/23/2018 00:28	WG1184727
Ethylbenzene	U		0.000578	0.00273	1	10/23/2018 00:28	WG1184727
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	10/23/2018 00:28	WG1184727
2-Hexanone	U		0.0109	0.0273	1	10/23/2018 00:28	WG1184727
n-Hexane	U		0.00116	0.00545	1	10/24/2018 15:52	WG1185319
Iodomethane	U		0.00660	0.0136	1	10/23/2018 00:28	WG1184727
Isopropylbenzene	U		0.000941	0.00273	1	10/23/2018 00:28	WG1184727
p-Isopropyltoluene	U		0.00254	0.00545	1	10/23/2018 00:28	WG1184727
2-Butanone (MEK)	U		0.0136	0.0273	1	10/24/2018 15:52	WG1185319
Methylene Chloride	U		0.00724	0.0273	1	10/23/2018 00:28	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	10/23/2018 00:28	WG1184727

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 14:44

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000322	0.00109	1	10/23/2018 00:28	WG1184727
Naphthalene	U		0.00340	0.0136	1	10/23/2018 00:28	WG1184727
n-Propylbenzene	U		0.00129	0.00545	1	10/23/2018 00:28	WG1184727
Styrene	U		0.00298	0.0136	1	10/23/2018 00:28	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000545	0.00273	1	10/23/2018 00:28	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000425	0.00273	1	10/23/2018 00:28	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000736	0.00273	1	10/23/2018 00:28	WG1184727
Tetrachloroethene	0.138		0.000764	0.00273	1	10/23/2018 00:28	WG1184727
Toluene	0.00570		0.00136	0.00545	1	10/23/2018 00:28	WG1184727
1,2,3-Trichlorobenzene	U		0.000682	0.00273	1	10/23/2018 00:28	WG1184727
1,2,4-Trichlorobenzene	U		0.00526	0.0136	1	10/23/2018 00:28	WG1184727
1,1,1-Trichloroethane	U		0.000300	0.00273	1	10/23/2018 00:28	WG1184727
1,1,2-Trichloroethane	U		0.000963	0.00273	1	10/24/2018 15:52	WG1185319
Trichloroethene	0.000945	J	0.000436	0.00109	1	10/23/2018 00:28	WG1184727
Trichlorofluoromethane	U		0.000545	0.00273	1	10/23/2018 00:28	WG1184727
1,2,3-Trichloropropane	U		0.00556	0.0136	1	10/23/2018 00:28	WG1184727
1,2,4-Trimethylbenzene	U		0.00127	0.00545	1	10/23/2018 00:28	WG1184727
1,2,3-Trimethylbenzene	U		0.00125	0.00545	1	10/23/2018 00:28	WG1184727
1,3,5-Trimethylbenzene	U		0.00118	0.00545	1	10/23/2018 00:28	WG1184727
Vinyl acetate	U		0.00384	0.0136	1	10/23/2018 00:28	WG1184727
Vinyl chloride	U		0.000745	0.00273	1	10/23/2018 00:28	WG1184727
Xylenes, Total	U		0.00521	0.00709	1	10/23/2018 00:28	WG1184727
(S) Toluene-d8	121			75.0-131		10/23/2018 00:28	WG1184727
(S) Toluene-d8	99.9			75.0-131		10/24/2018 15:52	WG1185319
(S) Dibromofluoromethane	75.8			65.0-129		10/23/2018 00:28	WG1184727
(S) Dibromofluoromethane	113			65.0-129		10/24/2018 15:52	WG1185319
(S) 4-Bromofluorobenzene	89.1			67.0-138		10/23/2018 00:28	WG1184727
(S) 4-Bromofluorobenzene	119			67.0-138		10/24/2018 15:52	WG1185319

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	83.8		1	10/24/2018 14:00	WG1185671

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0654	0.119	4	10/24/2018 18:32	WG1185319
Acrylonitrile	U		0.00227	0.0149	1	10/23/2018 00:48	WG1184727
Benzene	U		0.000477	0.00119	1	10/23/2018 00:48	WG1184727
Bromobenzene	U		0.00125	0.0149	1	10/23/2018 00:48	WG1184727
Bromodichloromethane	U		0.000940	0.00298	1	10/23/2018 00:48	WG1184727
Bromochloromethane	U		0.00135	0.00597	1	10/23/2018 00:48	WG1184727
Bromoform	U		0.00713	0.0298	1	10/23/2018 00:48	WG1184727
Bromomethane	U		0.00441	0.0149	1	10/23/2018 00:48	WG1184727
n-Butylbenzene	U		0.00458	0.0149	1	10/23/2018 00:48	WG1184727
sec-Butylbenzene	U		0.00302	0.0149	1	10/23/2018 00:48	WG1184727
tert-Butylbenzene	U		0.00185	0.00597	1	10/23/2018 00:48	WG1184727
Carbon disulfide	U		0.00484	0.0149	1	10/23/2018 00:48	WG1184727
Carbon tetrachloride	U		0.00129	0.00597	1	10/23/2018 00:48	WG1184727
Chlorobenzene	U		0.000684	0.00298	1	10/23/2018 00:48	WG1184727
Chlorodibromomethane	U		0.000537	0.00298	1	10/23/2018 00:48	WG1184727
Chloroethane	U		0.00129	0.00597	1	10/23/2018 00:48	WG1184727
Chloroform	0.00112	B J	0.000495	0.00298	1	10/23/2018 00:48	WG1184727
Chloromethane	U		0.00166	0.0149	1	10/23/2018 00:48	WG1184727
2-Chlorotoluene	U		0.00110	0.00298	1	10/23/2018 00:48	WG1184727
4-Chlorotoluene	U		0.00135	0.00597	1	10/23/2018 00:48	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00608	0.0298	1	10/23/2018 00:48	WG1184727
1,2-Dibromoethane	U		0.000626	0.00298	1	10/23/2018 00:48	WG1184727
Dibromomethane	U		0.00119	0.00597	1	10/23/2018 00:48	WG1184727
1,2-Dichlorobenzene	U		0.00173	0.00597	1	10/23/2018 00:48	WG1184727
1,3-Dichlorobenzene	U		0.00203	0.00597	1	10/23/2018 00:48	WG1184727
1,4-Dichlorobenzene	U		0.00235	0.00597	1	10/23/2018 00:48	WG1184727
Dichlorodifluoromethane	U		0.000976	0.00298	1	10/23/2018 00:48	WG1184727
1,1-Dichloroethane	U		0.000686	0.00298	1	10/23/2018 00:48	WG1184727
1,2-Dichloroethane	U		0.000567	0.00298	1	10/23/2018 00:48	WG1184727
1,1-Dichloroethene	U		0.000597	0.00298	1	10/23/2018 00:48	WG1184727
cis-1,2-Dichloroethene	U		0.000823	0.00298	1	10/23/2018 00:48	WG1184727
trans-1,2-Dichloroethene	U		0.00171	0.00597	1	10/23/2018 00:48	WG1184727
1,2-Dichloropropane	U		0.00606	0.0239	4	10/24/2018 18:32	WG1185319
1,1-Dichloropropene	U		0.000835	0.00298	1	10/23/2018 00:48	WG1184727
1,3-Dichloropropane	U		0.00209	0.00597	1	10/23/2018 00:48	WG1184727
cis-1,3-Dichloropropene	U		0.000809	0.00298	1	10/23/2018 00:48	WG1184727
trans-1,3-Dichloropropene	U		0.00183	0.00597	1	10/23/2018 00:48	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00167	0.00597	1	10/23/2018 00:48	WG1184727
2,2-Dichloropropane	U		0.000946	0.00298	1	10/23/2018 00:48	WG1184727
Di-isopropyl ether	U		0.000418	0.00119	1	10/23/2018 00:48	WG1184727
Ethylbenzene	U		0.000632	0.00298	1	10/23/2018 00:48	WG1184727
Hexachloro-1,3-butadiene	U		0.0152	0.0298	1	10/23/2018 00:48	WG1184727
2-Hexanone	U		0.0119	0.0298	1	10/23/2018 00:48	WG1184727
n-Hexane	U		0.00506	0.0239	4	10/24/2018 18:32	WG1185319
Iodomethane	U		0.00722	0.0149	1	10/23/2018 00:48	WG1184727
Isopropylbenzene	U		0.00103	0.00298	1	10/23/2018 00:48	WG1184727
p-Isopropyltoluene	U		0.00278	0.00597	1	10/23/2018 00:48	WG1184727
2-Butanone (MEK)	U		0.0597	0.119	4	10/24/2018 18:32	WG1185319
Methylene Chloride	U		0.00792	0.0298	1	10/23/2018 00:48	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0298	1	10/23/2018 00:48	WG1184727

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 14:49

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000352	0.00119	1	10/23/2018 00:48	WG1184727
Naphthalene	U		0.00372	0.0149	1	10/23/2018 00:48	WG1184727
n-Propylbenzene	U		0.00141	0.00597	1	10/23/2018 00:48	WG1184727
Styrene	U		0.00326	0.0149	1	10/23/2018 00:48	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000597	0.00298	1	10/23/2018 00:48	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000465	0.00298	1	10/23/2018 00:48	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000805	0.00298	1	10/23/2018 00:48	WG1184727
Tetrachloroethene	0.604	JO	0.00334	0.0119	4	10/24/2018 18:32	WG1185319
Toluene	U		0.00149	0.00597	1	10/23/2018 00:48	WG1184727
1,2,3-Trichlorobenzene	U		0.000746	0.00298	1	10/23/2018 00:48	WG1184727
1,2,4-Trichlorobenzene	U		0.00575	0.0149	1	10/23/2018 00:48	WG1184727
1,1,1-Trichloroethane	U		0.000328	0.00298	1	10/23/2018 00:48	WG1184727
1,1,2-Trichloroethane	U		0.00421	0.0119	4	10/24/2018 18:32	WG1185319
Trichloroethene	0.00123		0.000477	0.00119	1	10/23/2018 00:48	WG1184727
Trichlorofluoromethane	U		0.000597	0.00298	1	10/23/2018 00:48	WG1184727
1,2,3-Trichloropropane	U		0.00608	0.0149	1	10/23/2018 00:48	WG1184727
1,2,4-Trimethylbenzene	U		0.00138	0.00597	1	10/23/2018 00:48	WG1184727
1,2,3-Trimethylbenzene	U		0.00137	0.00597	1	10/23/2018 00:48	WG1184727
1,3,5-Trimethylbenzene	U		0.00129	0.00597	1	10/23/2018 00:48	WG1184727
Vinyl acetate	U		0.00420	0.0149	1	10/23/2018 00:48	WG1184727
Vinyl chloride	U		0.000815	0.00298	1	10/23/2018 00:48	WG1184727
Xylenes, Total	U		0.00570	0.00775	1	10/23/2018 00:48	WG1184727
(S) Toluene-d8	123			75.0-131		10/23/2018 00:48	WG1184727
(S) Toluene-d8	99.0			75.0-131		10/24/2018 18:32	WG1185319
(S) Dibromofluoromethane	98.6			65.0-129		10/23/2018 00:48	WG1184727
(S) Dibromofluoromethane	119			65.0-129		10/24/2018 18:32	WG1185319
(S) 4-Bromofluorobenzene	85.6			67.0-138		10/23/2018 00:48	WG1184727
(S) 4-Bromofluorobenzene	122			67.0-138		10/24/2018 18:32	WG1185319

Sample Narrative:

L1036473-30 WG1185319, WG1184727: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036473-30 WG1185319, WG1184727: Not all compounds reportable at lower dilution.

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	88.5		1	10/24/2018 14:00	WG1185671

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0619	0.113	4	10/24/2018 18:52	WG1185319
Acrylonitrile	U		0.00215	0.0141	1	10/23/2018 01:08	WG1184727
Benzene	U		0.000452	0.00113	1	10/23/2018 01:08	WG1184727
Bromobenzene	U		0.00119	0.0141	1	10/23/2018 01:08	WG1184727
Bromodichloromethane	U		0.000891	0.00283	1	10/23/2018 01:08	WG1184727
Bromochloromethane	U		0.00128	0.00565	1	10/23/2018 01:08	WG1184727
Bromoform	U		0.00676	0.0283	1	10/23/2018 01:08	WG1184727
Bromomethane	U		0.00418	0.0141	1	10/23/2018 01:08	WG1184727
n-Butylbenzene	U		0.00434	0.0141	1	10/23/2018 01:08	WG1184727
sec-Butylbenzene	U		0.00286	0.0141	1	10/23/2018 01:08	WG1184727
tert-Butylbenzene	U		0.00175	0.00565	1	10/23/2018 01:08	WG1184727
Carbon disulfide	U		0.00459	0.0141	1	10/23/2018 01:08	WG1184727
Carbon tetrachloride	U		0.00122	0.00565	1	10/23/2018 01:08	WG1184727
Chlorobenzene	U		0.000648	0.00283	1	10/23/2018 01:08	WG1184727
Chlorodibromomethane	U		0.000509	0.00283	1	10/23/2018 01:08	WG1184727
Chloroethane	U		0.00122	0.00565	1	10/23/2018 01:08	WG1184727
Chloroform	0.00153	B J	0.000469	0.00283	1	10/23/2018 01:08	WG1184727
Chloromethane	U		0.00157	0.0141	1	10/23/2018 01:08	WG1184727
2-Chlorotoluene	U		0.00104	0.00283	1	10/23/2018 01:08	WG1184727
4-Chlorotoluene	U		0.00128	0.00565	1	10/23/2018 01:08	WG1184727
1,2-Dibromo-3-Chloropropane	U		0.00576	0.0283	1	10/23/2018 01:08	WG1184727
1,2-Dibromoethane	U		0.000593	0.00283	1	10/23/2018 01:08	WG1184727
Dibromomethane	U		0.00113	0.00565	1	10/23/2018 01:08	WG1184727
1,2-Dichlorobenzene	U		0.00164	0.00565	1	10/23/2018 01:08	WG1184727
1,3-Dichlorobenzene	U		0.00192	0.00565	1	10/23/2018 01:08	WG1184727
1,4-Dichlorobenzene	U		0.00223	0.00565	1	10/23/2018 01:08	WG1184727
Dichlorodifluoromethane	U		0.000925	0.00283	1	10/23/2018 01:08	WG1184727
1,1-Dichloroethane	U		0.000650	0.00283	1	10/23/2018 01:08	WG1184727
1,2-Dichloroethane	U		0.000537	0.00283	1	10/23/2018 01:08	WG1184727
1,1-Dichloroethene	U		0.000565	0.00283	1	10/23/2018 01:08	WG1184727
cis-1,2-Dichloroethene	U		0.000780	0.00283	1	10/23/2018 01:08	WG1184727
trans-1,2-Dichloroethene	U		0.00162	0.00565	1	10/23/2018 01:08	WG1184727
1,2-Dichloropropane	U		0.00574	0.0226	4	10/24/2018 18:52	WG1185319
1,1-Dichloropropene	U		0.000791	0.00283	1	10/23/2018 01:08	WG1184727
1,3-Dichloropropane	U		0.00198	0.00565	1	10/23/2018 01:08	WG1184727
cis-1,3-Dichloropropene	U		0.000766	0.00283	1	10/23/2018 01:08	WG1184727
trans-1,3-Dichloropropene	U		0.00173	0.00565	1	10/23/2018 01:08	WG1184727
trans-1,4-Dichloro-2-butene	U		0.00158	0.00565	1	10/23/2018 01:08	WG1184727
2,2-Dichloropropane	U		0.000896	0.00283	1	10/23/2018 01:08	WG1184727
Di-isopropyl ether	U		0.000396	0.00113	1	10/23/2018 01:08	WG1184727
Ethylbenzene	U		0.000599	0.00283	1	10/23/2018 01:08	WG1184727
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	10/23/2018 01:08	WG1184727
2-Hexanone	U		0.0113	0.0283	1	10/23/2018 01:08	WG1184727
n-Hexane	U		0.00479	0.0226	4	10/24/2018 18:52	WG1185319
Iodomethane	U		0.00684	0.0141	1	10/23/2018 01:08	WG1184727
Isopropylbenzene	U		0.000975	0.00283	1	10/23/2018 01:08	WG1184727
p-Isopropyltoluene	U		0.00263	0.00565	1	10/23/2018 01:08	WG1184727
2-Butanone (MEK)	U		0.0565	0.113	4	10/24/2018 18:52	WG1185319
Methylene Chloride	U		0.00750	0.0283	1	10/23/2018 01:08	WG1184727
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	10/23/2018 01:08	WG1184727

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 14:50

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000333	0.00113	1	10/23/2018 01:08	WG1184727
Naphthalene	U		0.00353	0.0141	1	10/23/2018 01:08	WG1184727
n-Propylbenzene	U		0.00133	0.00565	1	10/23/2018 01:08	WG1184727
Styrene	U		0.00309	0.0141	1	10/23/2018 01:08	WG1184727
1,1,1,2-Tetrachloroethane	U		0.000565	0.00283	1	10/23/2018 01:08	WG1184727
1,1,2,2-Tetrachloroethane	U		0.000441	0.00283	1	10/23/2018 01:08	WG1184727
1,1,2-Trichlorotrifluoroethane	U		0.000763	0.00283	1	10/23/2018 01:08	WG1184727
Tetrachloroethene	0.517	<u>JO</u>	0.00316	0.0113	4	10/24/2018 18:52	WG1185319
Toluene	0.00188	<u>J</u>	0.00141	0.00565	1	10/23/2018 01:08	WG1184727
1,2,3-Trichlorobenzene	U		0.000706	0.00283	1	10/23/2018 01:08	WG1184727
1,2,4-Trichlorobenzene	U		0.00545	0.0141	1	10/23/2018 01:08	WG1184727
1,1,1-Trichloroethane	U	<u>J3</u>	0.000311	0.00283	1	10/23/2018 01:08	WG1184727
1,1,2-Trichloroethane	U		0.00399	0.0113	4	10/24/2018 18:52	WG1185319
Trichloroethene	0.00270		0.000452	0.00113	1	10/23/2018 01:08	WG1184727
Trichlorofluoromethane	U		0.000565	0.00283	1	10/23/2018 01:08	WG1184727
1,2,3-Trichloropropane	U		0.00576	0.0141	1	10/23/2018 01:08	WG1184727
1,2,4-Trimethylbenzene	U		0.00131	0.00565	1	10/23/2018 01:08	WG1184727
1,2,3-Trimethylbenzene	U		0.00130	0.00565	1	10/23/2018 01:08	WG1184727
1,3,5-Trimethylbenzene	U		0.00122	0.00565	1	10/23/2018 01:08	WG1184727
Vinyl acetate	U		0.00398	0.0141	1	10/23/2018 01:08	WG1184727
Vinyl chloride	U		0.000772	0.00283	1	10/23/2018 01:08	WG1184727
Xylenes, Total	U		0.00540	0.00735	1	10/23/2018 01:08	WG1184727
(S) Toluene-d8	126			75.0-131		10/23/2018 01:08	WG1184727
(S) Toluene-d8	99.3			75.0-131		10/24/2018 18:52	WG1185319
(S) Dibromofluoromethane	95.3			65.0-129		10/23/2018 01:08	WG1184727
(S) Dibromofluoromethane	118			65.0-129		10/24/2018 18:52	WG1185319
(S) 4-Bromofluorobenzene	86.4			67.0-138		10/23/2018 01:08	WG1184727
(S) 4-Bromofluorobenzene	124			67.0-138		10/24/2018 18:52	WG1185319

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

Sample Narrative:

L1036473-31 WG1185319, WG1184727: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1036473-31 WG1185319, WG1184727: Not all compounds reportable at lower dilution.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.5		1	10/24/2018 14:00	WG1185671

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.306	0.559	20	10/26/2018 05:16	WG1186559
Acrylonitrile	U		0.0425	0.279	20	10/26/2018 05:16	WG1186559
Benzene	U		0.00894	0.0224	20	10/26/2018 05:16	WG1186559
Bromobenzene	U		0.0235	0.279	20	10/26/2018 05:16	WG1186559
Bromodichloromethane	U		0.0177	0.0559	20	10/26/2018 05:16	WG1186559
Bromochloromethane	U		0.0253	0.112	20	10/26/2018 05:16	WG1186559
Bromoform	U		0.134	0.559	20	10/26/2018 05:16	WG1186559
Bromomethane	U		0.0827	0.279	20	10/26/2018 05:16	WG1186559
n-Butylbenzene	U		0.0858	0.279	20	10/26/2018 05:16	WG1186559
sec-Butylbenzene	U		0.0566	0.279	20	10/26/2018 05:16	WG1186559
tert-Butylbenzene	U		0.0347	0.112	20	10/26/2018 05:16	WG1186559
Carbon disulfide	U		0.0908	0.279	20	10/26/2018 05:16	WG1186559
Carbon tetrachloride	U		0.0241	0.112	20	10/26/2018 05:16	WG1186559
Chlorobenzene	U		0.0129	0.0559	20	10/26/2018 05:16	WG1186559
Chlorodibromomethane	U		0.0101	0.0559	20	10/26/2018 05:16	WG1186559
Chloroethane	U		0.0241	0.112	20	10/26/2018 05:16	WG1186559
Chloroform	U		0.00928	0.0559	20	10/26/2018 05:16	WG1186559
Chloromethane	U		0.0311	0.279	20	10/26/2018 05:16	WG1186559
2-Chlorotoluene	U		0.0206	0.0559	20	10/26/2018 05:16	WG1186559
4-Chlorotoluene	U		0.0253	0.112	20	10/26/2018 05:16	WG1186559
1,2-Dibromo-3-Chloropropane	U		0.114	0.559	20	10/26/2018 05:16	WG1186559
1,2-Dibromoethane	U		0.0117	0.0559	20	10/26/2018 05:16	WG1186559
Dibromomethane	U		0.0224	0.112	20	10/26/2018 05:16	WG1186559
1,2-Dichlorobenzene	U		0.0324	0.112	20	10/26/2018 05:16	WG1186559
1,3-Dichlorobenzene	U		0.0380	0.112	20	10/26/2018 05:16	WG1186559
1,4-Dichlorobenzene	U		0.0440	0.112	20	10/26/2018 05:16	WG1186559
Dichlorodifluoromethane	U		0.0183	0.0559	20	10/26/2018 05:16	WG1186559
1,1-Dichloroethane	U		0.0129	0.0559	20	10/26/2018 05:16	WG1186559
1,2-Dichloroethane	U		0.0106	0.0559	20	10/26/2018 05:16	WG1186559
1,1-Dichloroethene	U		0.0112	0.0559	20	10/26/2018 05:16	WG1186559
cis-1,2-Dichloroethene	U		0.0154	0.0559	20	10/26/2018 05:16	WG1186559
trans-1,2-Dichloroethene	U		0.0320	0.112	20	10/26/2018 05:16	WG1186559
1,2-Dichloropropane	U		0.0284	0.112	20	10/26/2018 05:16	WG1186559
1,1-Dichloropropene	U		0.0156	0.0559	20	10/26/2018 05:16	WG1186559
1,3-Dichloropropane	U		0.0391	0.112	20	10/26/2018 05:16	WG1186559
cis-1,3-Dichloropropene	U		0.0152	0.0559	20	10/26/2018 05:16	WG1186559
trans-1,3-Dichloropropene	U		0.0342	0.112	20	10/26/2018 05:16	WG1186559
trans-1,4-Dichloro-2-butene	U		0.0313	0.112	20	10/26/2018 05:16	WG1186559
2,2-Dichloropropane	U		0.0178	0.0559	20	10/26/2018 05:16	WG1186559
Di-isopropyl ether	U		0.00782	0.0224	20	10/26/2018 05:16	WG1186559
Ethylbenzene	U		0.0118	0.0559	20	10/26/2018 05:16	WG1186559
Hexachloro-1,3-butadiene	U		0.284	0.559	20	10/26/2018 05:16	WG1186559
2-Hexanone	U		0.224	0.559	20	10/26/2018 05:16	WG1186559
n-Hexane	U		0.0237	0.112	20	10/26/2018 05:16	WG1186559
Iodomethane	U		0.135	0.279	20	10/26/2018 05:16	WG1186559
Isopropylbenzene	U		0.0193	0.0559	20	10/26/2018 05:16	WG1186559
p-Isopropyltoluene	U		0.0521	0.112	20	10/26/2018 05:16	WG1186559
2-Butanone (MEK)	U		0.279	0.559	20	10/26/2018 05:16	WG1186559
Methylene Chloride	U		0.149	0.559	20	10/26/2018 05:16	WG1186559
4-Methyl-2-pentanone (MIBK)	U		0.224	0.559	20	10/26/2018 05:16	WG1186559

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 14:55

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00659	0.0224	20	10/26/2018 05:16	WG1186559
Naphthalene	U		0.0697	0.279	20	10/26/2018 05:16	WG1186559
n-Propylbenzene	U		0.0264	0.112	20	10/26/2018 05:16	WG1186559
Styrene	U		0.0610	0.279	20	10/26/2018 05:16	WG1186559
1,1,1,2-Tetrachloroethane	U		0.0112	0.0559	20	10/26/2018 05:16	WG1186559
1,1,2,2-Tetrachloroethane	U		0.00872	0.0559	20	10/26/2018 05:16	WG1186559
1,1,2-Trichlorotrifluoroethane	U		0.0151	0.0559	20	10/26/2018 05:16	WG1186559
Tetrachloroethene	7.72		0.0156	0.0559	20	10/26/2018 05:16	WG1186559
Toluene	U		0.0279	0.112	20	10/26/2018 05:16	WG1186559
1,2,3-Trichlorobenzene	U		0.0140	0.0559	20	10/26/2018 05:16	WG1186559
1,2,4-Trichlorobenzene	U		0.108	0.279	20	10/26/2018 05:16	WG1186559
1,1,1-Trichloroethane	U		0.00615	0.0559	20	10/26/2018 05:16	WG1186559
1,1,2-Trichloroethane	U		0.0198	0.0559	20	10/26/2018 05:16	WG1186559
Trichloroethene	0.0853		0.00894	0.0224	20	10/26/2018 05:16	WG1186559
Trichlorofluoromethane	U		0.0112	0.0559	20	10/26/2018 05:16	WG1186559
1,2,3-Trichloropropane	U		0.114	0.279	20	10/26/2018 05:16	WG1186559
1,2,4-Trimethylbenzene	U		0.0259	0.112	20	10/26/2018 05:16	WG1186559
1,2,3-Trimethylbenzene	U		0.0257	0.112	20	10/26/2018 05:16	WG1186559
1,3,5-Trimethylbenzene	U		0.0241	0.112	20	10/26/2018 05:16	WG1186559
Vinyl acetate	U		0.0787	0.279	20	10/26/2018 05:16	WG1186559
Vinyl chloride	U		0.0153	0.0559	20	10/26/2018 05:16	WG1186559
Xylenes, Total	U		0.107	0.145	20	10/26/2018 05:16	WG1186559
(S) Toluene-d8	104			75.0-131		10/26/2018 05:16	WG1186559
(S) Dibromofluoromethane	98.2			65.0-129		10/26/2018 05:16	WG1186559
(S) 4-Bromofluorobenzene	106			67.0-138		10/26/2018 05:16	WG1186559

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

Sample Narrative:

L1036473-32 WG1186559: Diluted due to high levels of target analytes.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.7		1	10/24/2018 14:00	WG1185671

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.341	0.621	21.8	10/26/2018 05:35	WG1186559
Acrylonitrile	U		0.0472	0.311	21.8	10/26/2018 05:35	WG1186559
Benzene	U		0.00994	0.0248	21.8	10/26/2018 05:35	WG1186559
Bromobenzene	U		0.0261	0.311	21.8	10/26/2018 05:35	WG1186559
Bromodichloromethane	U		0.0196	0.0621	21.8	10/26/2018 05:35	WG1186559
Bromochloromethane	U		0.0280	0.124	21.8	10/26/2018 05:35	WG1186559
Bromoform	U		0.148	0.621	21.8	10/26/2018 05:35	WG1186559
Bromomethane	U		0.0920	0.311	21.8	10/26/2018 05:35	WG1186559
n-Butylbenzene	U		0.0954	0.311	21.8	10/26/2018 05:35	WG1186559
sec-Butylbenzene	U		0.0629	0.311	21.8	10/26/2018 05:35	WG1186559
tert-Butylbenzene	U		0.0385	0.124	21.8	10/26/2018 05:35	WG1186559
Carbon disulfide	U		0.101	0.311	21.8	10/26/2018 05:35	WG1186559
Carbon tetrachloride	U		0.0268	0.124	21.8	10/26/2018 05:35	WG1186559
Chlorobenzene	U		0.0142	0.0621	21.8	10/26/2018 05:35	WG1186559
Chlorodibromomethane	U		0.0112	0.0621	21.8	10/26/2018 05:35	WG1186559
Chloroethane	U		0.0268	0.124	21.8	10/26/2018 05:35	WG1186559
Chloroform	U		0.0103	0.0621	21.8	10/26/2018 05:35	WG1186559
Chloromethane	U		0.0345	0.311	21.8	10/26/2018 05:35	WG1186559
2-Chlorotoluene	U		0.0228	0.0621	21.8	10/26/2018 05:35	WG1186559
4-Chlorotoluene	U		0.0280	0.124	21.8	10/26/2018 05:35	WG1186559
1,2-Dibromo-3-Chloropropane	U		0.127	0.621	21.8	10/26/2018 05:35	WG1186559
1,2-Dibromoethane	U		0.0130	0.0621	21.8	10/26/2018 05:35	WG1186559
Dibromomethane	U		0.0248	0.124	21.8	10/26/2018 05:35	WG1186559
1,2-Dichlorobenzene	U		0.0360	0.124	21.8	10/26/2018 05:35	WG1186559
1,3-Dichlorobenzene	U		0.0423	0.124	21.8	10/26/2018 05:35	WG1186559
1,4-Dichlorobenzene	U		0.0489	0.124	21.8	10/26/2018 05:35	WG1186559
Dichlorodifluoromethane	U		0.0203	0.0621	21.8	10/26/2018 05:35	WG1186559
1,1-Dichloroethane	U		0.0142	0.0621	21.8	10/26/2018 05:35	WG1186559
1,2-Dichloroethane	U		0.0119	0.0621	21.8	10/26/2018 05:35	WG1186559
1,1-Dichloroethene	U		0.0124	0.0621	21.8	10/26/2018 05:35	WG1186559
cis-1,2-Dichloroethene	U		0.0171	0.0621	21.8	10/26/2018 05:35	WG1186559
trans-1,2-Dichloroethene	U		0.0356	0.124	21.8	10/26/2018 05:35	WG1186559
1,2-Dichloropropane	U		0.0316	0.124	21.8	10/26/2018 05:35	WG1186559
1,1-Dichloropropene	U		0.0174	0.0621	21.8	10/26/2018 05:35	WG1186559
1,3-Dichloropropane	U		0.0435	0.124	21.8	10/26/2018 05:35	WG1186559
cis-1,3-Dichloropropene	U		0.0169	0.0621	21.8	10/26/2018 05:35	WG1186559
trans-1,3-Dichloropropene	U		0.0381	0.124	21.8	10/26/2018 05:35	WG1186559
trans-1,4-Dichloro-2-butene	U		0.0348	0.124	21.8	10/26/2018 05:35	WG1186559
2,2-Dichloropropane	U		0.0197	0.0621	21.8	10/26/2018 05:35	WG1186559
Di-isopropyl ether	U		0.00870	0.0248	21.8	10/26/2018 05:35	WG1186559
Ethylbenzene	U		0.0132	0.0621	21.8	10/26/2018 05:35	WG1186559
Hexachloro-1,3-butadiene	U		0.316	0.621	21.8	10/26/2018 05:35	WG1186559
2-Hexanone	U		0.248	0.621	21.8	10/26/2018 05:35	WG1186559
n-Hexane	U		0.0263	0.124	21.8	10/26/2018 05:35	WG1186559
Iodomethane	U		0.150	0.311	21.8	10/26/2018 05:35	WG1186559
Isopropylbenzene	U		0.0214	0.0621	21.8	10/26/2018 05:35	WG1186559
p-Isopropyltoluene	U		0.0579	0.124	21.8	10/26/2018 05:35	WG1186559
2-Butanone (MEK)	U		0.310	0.621	21.8	10/26/2018 05:35	WG1186559
Methylene Chloride	U		0.165	0.621	21.8	10/26/2018 05:35	WG1186559
4-Methyl-2-pentanone (MIBK)	U		0.248	0.621	21.8	10/26/2018 05:35	WG1186559

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 15:17

L1036473

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00733	0.0248	21.8	10/26/2018 05:35	WG1186559
Naphthalene	U		0.0775	0.311	21.8	10/26/2018 05:35	WG1186559
n-Propylbenzene	U		0.0293	0.124	21.8	10/26/2018 05:35	WG1186559
Styrene	U		0.0678	0.311	21.8	10/26/2018 05:35	WG1186559
1,1,1,2-Tetrachloroethane	U		0.0124	0.0621	21.8	10/26/2018 05:35	WG1186559
1,1,2,2-Tetrachloroethane	U		0.00969	0.0621	21.8	10/26/2018 05:35	WG1186559
1,1,2-Trichlorotrifluoroethane	U		0.0168	0.0621	21.8	10/26/2018 05:35	WG1186559
Tetrachloroethene	8.01		0.0174	0.0621	21.8	10/26/2018 05:35	WG1186559
Toluene	U		0.0310	0.124	21.8	10/26/2018 05:35	WG1186559
1,2,3-Trichlorobenzene	U		0.0155	0.0621	21.8	10/26/2018 05:35	WG1186559
1,2,4-Trichlorobenzene	U		0.120	0.311	21.8	10/26/2018 05:35	WG1186559
1,1,1-Trichloroethane	U		0.00684	0.0621	21.8	10/26/2018 05:35	WG1186559
1,1,2-Trichloroethane	U		0.0219	0.0621	21.8	10/26/2018 05:35	WG1186559
Trichloroethene	0.102		0.00994	0.0248	21.8	10/26/2018 05:35	WG1186559
Trichlorofluoromethane	U		0.0124	0.0621	21.8	10/26/2018 05:35	WG1186559
1,2,3-Trichloropropane	U		0.127	0.311	21.8	10/26/2018 05:35	WG1186559
1,2,4-Trimethylbenzene	U		0.0288	0.124	21.8	10/26/2018 05:35	WG1186559
1,2,3-Trimethylbenzene	U		0.0286	0.124	21.8	10/26/2018 05:35	WG1186559
1,3,5-Trimethylbenzene	U		0.0268	0.124	21.8	10/26/2018 05:35	WG1186559
Vinyl acetate	U		0.0874	0.311	21.8	10/26/2018 05:35	WG1186559
Vinyl chloride	U		0.0170	0.0621	21.8	10/26/2018 05:35	WG1186559
Xylenes, Total	U		0.119	0.162	21.8	10/26/2018 05:35	WG1186559
(S) Toluene-d8	108			75.0-131		10/26/2018 05:35	WG1186559
(S) Dibromofluoromethane	98.8			65.0-129		10/26/2018 05:35	WG1186559
(S) 4-Bromofluorobenzene	103			67.0-138		10/26/2018 05:35	WG1186559

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

Sample Narrative:

L1036473-33 WG1186559: Diluted due to high levels of target analytes.



Total Solids by Method 2540 G-2011

L1036473-01,02,03,04

Method Blank (MB)

(MB) R3353699-1 10/24/18 12:49

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

L1036472-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1036472-04 10/24/18 12:49 • (DUP) R3353699-3 10/24/18 12:49

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	86.7	88.4	1	1.93		10

Laboratory Control Sample (LCS)

(LCS) R3353699-2 10/24/18 12:49

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Total Solids	50.0	50.0	100	85.0-115	

¹Cp ${}^2\text{Tc}$ ${}^3S_S$ ${}^4\text{Cn}$ ${}^5\text{Sr}$ ${}^6\text{Qc}$

GI

 ${}^8\text{Al}$ ⁹Sc



Method Blank (MB)

(MB) R3353711-1 10/24/18 13:49

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

L1036473-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1036473-12 10/24/18 13:49 • (DUP) R3353711-3 10/24/18 13:49

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	89.1	89.2	1	0.174		10

Laboratory Control Sample (LCS)

(LCS) R3353711-2 10/24/18 13:49

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

⁷ Gl

⁸ Al

⁹ Sc

Total Solids by Method 2540 G-2011

[L1036473-15,16,17,18,19,20,21,22,23,24](#)

Method Blank (MB)

(MB) R3353710-1 10/24/18 13:36

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

L1036473-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1036473-23 10/24/18 13:36 • (DUP) R3353710-3 10/24/18 13:36

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	82.1	80.5	1	1.92		10

Laboratory Control Sample (LCS)

(LCS) R3353710-2 10/24/18 13:36

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3353714-1 10/24/18 14:00

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

L1036473-29 Original Sample (OS) • Duplicate (DUP)

(OS) L1036473-29 10/24/18 14:00 • (DUP) R3353714-3 10/24/18 14:00

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	91.7	93.4	1	1.86		10

Laboratory Control Sample (LCS)

(LCS) R3353714-2 10/24/18 14:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

[L1036473-01,02,03,04,05,06,07,08,09,10,11](#)

Method Blank (MB)

(MB) R3353171-2 10/22/18 11:26

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	0.00131	U	0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3353171-2 10/22/18 11:26

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
n-Hexane	U		0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	106			75.0-131
(S) Dibromofluoromethane	91.7			65.0-129
(S) 4-Bromofluorobenzene	95.5			67.0-138

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Laboratory Control Sample (LCS)

(LCS) R3353171-1 10/22/18 10:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acrylonitrile	0.625	0.571	91.3	45.0-153	
Benzene	0.125	0.126	101	70.0-123	



Laboratory Control Sample (LCS)

(LCS) R3353171-1 10/22/18 10:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromobenzene	0.125	0.111	88.8	73.0-121	
Bromodichloromethane	0.125	0.124	99.5	73.0-121	
Bromochloromethane	0.125	0.101	80.9	77.0-128	
Bromoform	0.125	0.107	85.3	64.0-132	
Bromomethane	0.125	0.109	87.1	56.0-147	
n-Butylbenzene	0.125	0.0907	72.6	68.0-135	
sec-Butylbenzene	0.125	0.0972	77.8	74.0-130	
tert-Butylbenzene	0.125	0.107	85.4	75.0-127	
Carbon disulfide	0.125	0.101	81.1	56.0-133	
Carbon tetrachloride	0.125	0.112	89.6	66.0-128	
Chlorobenzene	0.125	0.107	85.3	76.0-128	
Chlorodibromomethane	0.125	0.135	108	74.0-127	
Chloroethane	0.125	0.101	80.6	61.0-134	
Chloroform	0.125	0.109	87.2	72.0-123	
Chloromethane	0.125	0.115	91.6	51.0-138	
2-Chlorotoluene	0.125	0.119	94.9	75.0-124	
4-Chlorotoluene	0.125	0.112	89.6	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.111	88.6	59.0-130	
1,2-Dibromoethane	0.125	0.116	92.4	74.0-128	
Dibromomethane	0.125	0.130	104	75.0-122	
1,2-Dichlorobenzene	0.125	0.127	102	76.0-124	
1,3-Dichlorobenzene	0.125	0.106	85.1	76.0-125	
1,4-Dichlorobenzene	0.125	0.112	89.9	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.139	111	45.0-143	
1,1-Dichloroethane	0.125	0.125	100	70.0-127	
1,2-Dichloroethane	0.125	0.127	101	65.0-131	
1,1-Dichloroethene	0.125	0.119	95.1	65.0-131	
cis-1,2-Dichloroethene	0.125	0.138	111	73.0-125	
trans-1,2-Dichloroethene	0.125	0.105	83.8	71.0-125	
1,2-Dichloropropane	0.125	0.114	91.1	74.0-125	
1,1-Dichloropropene	0.125	0.128	102	73.0-125	
1,3-Dichloropropane	0.125	0.106	84.7	80.0-125	
cis-1,3-Dichloropropene	0.125	0.129	104	76.0-127	
trans-1,3-Dichloropropene	0.125	0.186	149	73.0-127	J4
2,2-Dichloropropane	0.125	0.137	110	59.0-135	
Di-isopropyl ether	0.125	0.115	92.4	60.0-136	
Ethylbenzene	0.125	0.111	88.5	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.182	146	57.0-150	
2-Hexanone	0.625	0.633	101	54.0-147	
n-Hexane	0.125	0.164	131	55.0-137	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R3353171-1 10/22/18 10:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Iodomethane	0.625	0.657	105	74.0-134	
Isopropylbenzene	0.125	0.110	88.1	72.0-127	
p-Isopropyltoluene	0.125	0.0984	78.8	72.0-133	
2-Butanone (MEK)	0.625	0.692	111	30.0-160	
Methylene Chloride	0.125	0.0916	73.3	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.706	113	56.0-143	
Methyl tert-butyl ether	0.125	0.119	94.8	66.0-132	
Naphthalene	0.125	0.109	87.5	59.0-130	
n-Propylbenzene	0.125	0.123	98.1	74.0-126	
Styrene	0.125	0.111	89.1	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.165	132	74.0-129	J4
Tetrachloroethene	0.125	0.145	116	70.0-136	
Toluene	0.125	0.115	92.1	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.0912	73.0	61.0-139	
1,2,4-Trichlorobenzene	0.125	0.128	103	62.0-137	
1,1,1-Trichloroethane	0.125	0.138	111	69.0-126	
1,1,2-Trichloroethane	0.125	0.118	94.4	78.0-123	
Trichloroethene	0.125	0.127	101	76.0-126	
Trichlorofluoromethane	0.125	0.120	95.7	61.0-142	
1,2,3-Trichloropropane	0.125	0.120	96.1	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.126	101	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.111	88.7	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.116	92.9	73.0-127	
Vinyl acetate	0.625	0.530	84.7	43.0-159	
Vinyl chloride	0.125	0.125	99.7	63.0-134	
Xylenes, Total	0.375	0.361	96.3	72.0-127	
(S) Toluene-d8			104	75.0-131	
(S) Dibromofluoromethane			90.5	65.0-129	
(S) 4-Bromofluorobenzene			88.9	67.0-138	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3353249-2 10/22/18 16:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	0.000950	U	0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

[L1036473-12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31](#)

Method Blank (MB)

(MB) R3353249-2 10/22/18 16:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexachloro-1,3-butadiene	U		0.0127	0.0250
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	127			75.0-131
(S) Dibromofluoromethane	87.1			65.0-129
(S) 4-Bromofluorobenzene	93.4			67.0-138

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R3353249-1 10/22/18 15:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acrylonitrile	0.625	0.701	112	45.0-153	
Benzene	0.125	0.129	103	70.0-123	



Laboratory Control Sample (LCS)

(LCS) R3353249-1 10/22/18 15:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromobenzene	0.125	0.131	105	73.0-121	
Bromodichloromethane	0.125	0.135	108	73.0-121	
Bromochloromethane	0.125	0.133	106	77.0-128	
Bromoform	0.125	0.111	88.9	64.0-132	
Bromomethane	0.125	0.112	89.6	56.0-147	
n-Butylbenzene	0.125	0.135	108	68.0-135	
sec-Butylbenzene	0.125	0.137	110	74.0-130	
tert-Butylbenzene	0.125	0.132	106	75.0-127	
Carbon disulfide	0.125	0.103	82.6	56.0-133	
Carbon tetrachloride	0.125	0.109	87.0	66.0-128	
Chlorobenzene	0.125	0.121	96.5	76.0-128	
Chlorodibromomethane	0.125	0.118	94.8	74.0-127	
Chloroethane	0.125	0.121	97.2	61.0-134	
Chloroform	0.125	0.135	108	72.0-123	
Chloromethane	0.125	0.106	84.5	51.0-138	
2-Chlorotoluene	0.125	0.127	102	75.0-124	
4-Chlorotoluene	0.125	0.136	109	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.129	103	59.0-130	
1,2-Dibromoethane	0.125	0.127	101	74.0-128	
Dibromomethane	0.125	0.125	100	75.0-122	
1,2-Dichlorobenzene	0.125	0.142	114	76.0-124	
1,3-Dichlorobenzene	0.125	0.134	107	76.0-125	
1,4-Dichlorobenzene	0.125	0.130	104	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.123	98.5	45.0-143	
Dichlorodifluoromethane	0.125	0.126	101	43.0-156	
1,1-Dichloroethane	0.125	0.143	114	70.0-127	
1,2-Dichloroethane	0.125	0.142	113	65.0-131	
1,1-Dichloroethene	0.125	0.128	102	65.0-131	
cis-1,2-Dichloroethene	0.125	0.129	103	73.0-125	
trans-1,2-Dichloroethene	0.125	0.123	98.4	71.0-125	
1,2-Dichloropropane	0.125	0.134	107	74.0-125	
1,1-Dichloropropene	0.125	0.127	101	73.0-125	
1,3-Dichloropropane	0.125	0.136	109	80.0-125	
cis-1,3-Dichloropropene	0.125	0.124	98.8	76.0-127	
trans-1,3-Dichloropropene	0.125	0.116	92.9	73.0-127	
2,2-Dichloropropane	0.125	0.108	86.6	59.0-135	
Di-isopropyl ether	0.125	0.128	102	60.0-136	
Ethylbenzene	0.125	0.137	110	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.130	104	57.0-150	
2-Hexanone	0.625	0.746	119	54.0-147	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3353249-1 10/22/18 15:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Iodomethane	0.625	0.646	103	74.0-134	
Isopropylbenzene	0.125	0.129	103	72.0-127	
p-Isopropyltoluene	0.125	0.136	109	72.0-133	
Methylene Chloride	0.125	0.118	94.2	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.717	115	56.0-143	
Methyl tert-butyl ether	0.125	0.134	108	66.0-132	
Naphthalene	0.125	0.137	110	59.0-130	
n-Propylbenzene	0.125	0.130	104	74.0-126	
Styrene	0.125	0.113	90.4	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.132	106	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.128	102	68.0-128	
Tetrachloroethene	0.125	0.147	118	70.0-136	
Toluene	0.125	0.145	116	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.123	98.2	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.154	123	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.132	105	62.0-137	
1,1,1-Trichloroethane	0.125	0.114	91.4	69.0-126	
Trichloroethene	0.125	0.110	87.9	76.0-126	
Trichlorofluoromethane	0.125	0.126	101	61.0-142	
1,2,3-Trichloropropane	0.125	0.135	108	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.137	109	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.129	103	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.128	102	73.0-127	
Vinyl acetate	0.625	0.673	108	43.0-159	
Vinyl chloride	0.125	0.106	84.5	63.0-134	
Xylenes, Total	0.375	0.366	97.6	72.0-127	
(S) Toluene-d8			113	75.0-131	
(S) Dibromofluoromethane			108	65.0-129	
(S) 4-Bromofluorobenzene			97.8	67.0-138	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1036473-31 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1036473-31 10/23/18 01:08 • (MS) R3353249-3 10/23/18 01:29 • (MSD) R3353249-4 10/23/18 01:49

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 %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Acrylonitrile	0.706	U	0.591	0.560	83.6	79.2	1	10.0-160			5.39	40
Benzene	0.141	U	0.124	0.105	88.1	74.5	1	10.0-149			16.7	37
Bromobenzene	0.141	U	0.114	0.119	81.0	84.4	1	10.0-156			4.06	38
Bromodichloromethane	0.141	U	0.116	0.114	81.8	80.4	1	10.0-143			1.64	37



L1036473-31 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1036473-31 10/23/18 01:08 • (MS) R3353249-3 10/23/18 01:29 • (MSD) R3353249-4 10/23/18 01:49

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 %
Bromochloromethane	0.141	U	0.124	0.111	87.8	78.5	1	10.0-155			11.2	33
Bromoform	0.141	U	0.0812	0.0836	57.5	59.2	1	10.0-146			2.88	36
Bromomethane	0.141	U	0.0749	0.0844	53.0	59.7	1	10.0-149			12.0	38
n-Butylbenzene	0.141	U	0.129	0.127	91.3	89.9	1	10.0-160			1.48	40
sec-Butylbenzene	0.141	U	0.127	0.128	90.2	90.3	1	10.0-159			0.194	39
tert-Butylbenzene	0.141	U	0.119	0.122	83.9	86.0	1	10.0-156			2.48	39
Carbon disulfide	0.141	U	0.0998	0.0876	70.7	62.0	1	10.0-145			13.1	39
Carbon tetrachloride	0.141	U	0.107	0.105	75.7	74.2	1	10.0-145			2.00	37
Chlorobenzene	0.141	U	0.119	0.166	84.4	118	1	10.0-152			32.9	39
Chlorodibromomethane	0.141	U	0.0992	0.111	70.2	78.9	1	10.0-146			11.6	37
Chloroethane	0.141	U	0.0817	0.0848	57.8	60.0	1	10.0-146			3.76	40
Chloroform	0.141	0.00153	0.127	0.112	88.7	78.4	1	10.0-146			12.1	37
Chloromethane	0.141	U	0.101	0.113	71.2	79.8	1	10.0-159			11.3	37
2-Chlorotoluene	0.141	U	0.117	0.118	82.7	83.8	1	10.0-159			1.42	38
4-Chlorotoluene	0.141	U	0.123	0.123	87.1	86.8	1	10.0-155			0.314	39
1,2-Dibromo-3-Chloropropane	0.141	U	0.0980	0.103	69.4	73.2	1	10.0-151			5.32	39
1,2-Dibromoethane	0.141	U	0.121	0.129	85.5	91.2	1	10.0-148			6.36	34
Dibromomethane	0.141	U	0.108	0.122	76.2	86.3	1	10.0-147			12.4	35
1,2-Dichlorobenzene	0.141	U	0.125	0.127	88.7	89.7	1	10.0-155			1.13	37
1,3-Dichlorobenzene	0.141	U	0.120	0.119	85.1	84.5	1	10.0-153			0.711	38
1,4-Dichlorobenzene	0.141	U	0.116	0.117	82.4	82.7	1	10.0-151			0.390	38
trans-1,4-Dichloro-2-butene	0.141	U	0.116	0.114	82.0	80.8	1	10.0-152			1.49	36
Dichlorodifluoromethane	0.141	U	0.168	0.206	119	146	1	10.0-160			20.7	35
1,1-Dichloroethane	0.141	U	0.139	0.117	98.5	82.6	1	10.0-147			17.5	37
1,2-Dichloroethane	0.141	U	0.132	0.116	93.3	81.8	1	10.0-148			13.1	35
1,1-Dichloroethene	0.141	U	0.132	0.114	93.7	80.8	1	10.0-155			14.7	37
cis-1,2-Dichloroethene	0.141	U	0.122	0.105	86.4	74.5	1	10.0-149			14.8	37
trans-1,2-Dichloroethene	0.141	U	0.119	0.105	84.5	74.1	1	10.0-150			13.2	37
1,2-Dichloropropane	0.141	U	0.119	0.113	83.9	79.8	1	10.0-148			4.97	37
1,1-Dichloropropene	0.141	U	0.132	0.116	93.6	81.8	1	10.0-153			13.4	35
1,3-Dichloropropane	0.141	U	0.138	0.124	97.6	88.0	1	10.0-154			10.4	35
cis-1,3-Dichloropropene	0.141	U	0.115	0.108	81.3	76.3	1	10.0-151			6.33	37
trans-1,3-Dichloropropene	0.141	U	0.107	0.103	75.8	72.7	1	10.0-148			4.21	37
2,2-Dichloropropane	0.141	U	0.112	0.104	79.5	73.5	1	10.0-138			7.82	36
Di-isopropyl ether	0.141	U	0.123	0.113	86.9	79.9	1	10.0-147			8.31	36
Ethylbenzene	0.141	U	0.134	0.195	95.1	138	1	10.0-160			36.8	38
Hexachloro-1,3-butadiene	0.141	U	0.118	0.123	83.3	87.2	1	10.0-160			4.64	40
2-Hexanone	0.706	U	0.690	0.745	97.7	105	1	10.0-160			7.70	36
Iodomethane	0.706	U	0.613	0.598	86.8	84.7	1	10.0-160			2.51	38

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

[L1036473-12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31](#)

L1036473-31 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1036473-31 10/23/18 01:08 • (MS) R3353249-3 10/23/18 01:29 • (MSD) R3353249-4 10/23/18 01:49

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 %
Isopropylbenzene	0.141	U	0.118	0.120	83.8	85.0	1	10.0-155			1.34	38
p-Isopropyltoluene	0.141	U	0.129	0.130	91.0	91.7	1	10.0-160			0.724	40
Methylene Chloride	0.141	U	0.123	0.103	87.2	72.6	1	10.0-141			18.3	37
4-Methyl-2-pentanone (MIBK)	0.706	U	0.703	0.675	99.6	95.5	1	10.0-160			4.14	35
Methyl tert-butyl ether	0.141	U	0.125	0.108	88.5	76.3	1	11.0-147			14.9	35
Naphthalene	0.141	U	0.116	0.117	81.8	82.9	1	10.0-160			1.22	36
n-Propylbenzene	0.141	U	0.122	0.123	86.0	87.4	1	10.0-158			1.54	38
Styrene	0.141	U	0.0978	0.0953	69.2	67.5	1	10.0-160			2.58	40
1,1,1,2-Tetrachloroethane	0.141	U	0.122	0.176	86.4	125	1	10.0-149			36.4	39
1,1,2,2-Tetrachloroethane	0.141	U	0.109	0.111	77.4	78.3	1	10.0-160			1.25	35
Tetrachloroethene	0.141	0.950	0.684	0.707	0.000	0.000	1	10.0-156	V	V	3.19	39
Toluene	0.141	0.00188	0.144	0.142	101	99.0	1	10.0-156			1.58	38
1,1,2-Trichlorotrifluoroethane	0.141	U	0.130	0.114	92.0	80.6	1	10.0-160			13.3	36
1,2,3-Trichlorobenzene	0.141	U	0.133	0.130	94.3	91.8	1	10.0-160			2.70	40
1,2,4-Trichlorobenzene	0.141	U	0.119	0.115	84.2	81.2	1	10.0-160			3.69	40
1,1,1-Trichloroethane	0.141	U	0.110	0.0368	78.0	26.1	1	10.0-144		J3	99.8	35
Trichloroethene	0.141	0.00270	0.102	0.113	70.3	77.8	1	10.0-156			9.87	38
Trichlorofluoromethane	0.141	U	0.137	0.122	96.7	86.1	1	10.0-160			11.6	40
1,2,3-Trichloropropane	0.141	U	0.112	0.118	79.6	83.7	1	10.0-156			5.04	35
1,2,3-Trimethylbenzene	0.141	U	0.125	0.124	88.7	88.0	1	10.0-160			0.794	36
1,2,4-Trimethylbenzene	0.141	U	0.116	0.114	82.0	80.9	1	10.0-160			1.36	36
1,3,5-Trimethylbenzene	0.141	U	0.115	0.118	81.5	83.7	1	10.0-160			2.69	38
Vinyl acetate	0.706	U	0.583	0.547	82.6	77.4	1	10.0-128			6.42	40
Vinyl chloride	0.141	U	0.0756	0.0858	53.5	60.7	1	10.0-160			12.6	37
Xylenes, Total	0.424	U	0.373	0.526	88.0	124	1	10.0-160			34.0	38
(S) Toluene-d8					118	116		75.0-131				
(S) Dibromofluoromethane					94.6	96.1		65.0-129				
(S) 4-Bromofluorobenzene					93.6	95.4		67.0-138				

Sample Narrative:

OS: Not all compounds reportable at lower dilution.

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3353491-2 10/23/18 10:28

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Dichlorodifluoromethane	U		0.000818	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
n-Hexane	0.00153	J	0.00106	0.00500
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
(S) Toluene-d8	97.2			75.0-131
(S) Dibromofluoromethane	116			65.0-129
(S) 4-Bromofluorobenzene	121			67.0-138

Laboratory Control Sample (LCS)

(LCS) R3353491-1 10/23/18 09:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.680	109	10.0-160	
Dichlorodifluoromethane	0.125	0.142	114	43.0-156	
cis-1,2-Dichloroethene	0.125	0.141	113	73.0-125	
n-Hexane	0.125	0.124	98.9	55.0-137	
1,1,2,2-Tetrachloroethane	0.125	0.137	110	68.0-128	
1,2,3-Trichlorobenzene	0.125	0.116	92.7	59.0-139	
(S) Toluene-d8			98.4	75.0-131	
(S) Dibromofluoromethane			118	65.0-129	
(S) 4-Bromofluorobenzene			120	67.0-138	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3353962-2 10/24/18 11:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Bromodichloromethane	U		0.000788	0.00250
1,2-Dichloropropane	U		0.00127	0.00500
n-Hexane	U		0.00106	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Tetrachloroethene	U		0.000700	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
(S) Toluene-d8	99.2			75.0-131
(S) Dibromofluoromethane	116			65.0-129
(S) 4-Bromofluorobenzene	122			67.0-138

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3353962-1 10/24/18 10:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.604	96.7	10.0-160	
Bromodichloromethane	0.125	0.129	103	73.0-121	
1,2-Dichloropropane	0.125	0.129	103	74.0-125	
n-Hexane	0.125	0.140	112	55.0-137	
2-Butanone (MEK)	0.625	0.800	128	30.0-160	
Tetrachloroethene	0.125	0.0935	74.8	70.0-136	
1,1,2-Trichloroethane	0.125	0.111	89.2	78.0-123	
(S) Toluene-d8			95.0	75.0-131	
(S) Dibromofluoromethane			118	65.0-129	
(S) 4-Bromofluorobenzene			125	67.0-138	



Method Blank (MB)

(MB) R3353736-3 10/24/18 16:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Tetrachloroethene	U		0.000700	0.00250
(S) Toluene-d8	107			75.0-131
(S) Dibromofluoromethane	96.9			65.0-129
(S) 4-Bromofluorobenzene	103			67.0-138

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

(LCS) R3353736-1 10/24/18 14:59 • (LCSD) R3353736-2 10/24/18 15:18

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 %
Tetrachloroethene	0.125	0.145	0.143	116	114	70.0-136			1.41	20
(S) Toluene-d8				105	105	75.0-131				
(S) Dibromofluoromethane				104	99.9	65.0-129				
(S) 4-Bromofluorobenzene				104	104	67.0-138				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3354173-2 10/26/18 00:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3354173-2 10/26/18 00:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250
n-Hexane	U		0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	0.00736	U	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	108			75.0-131
(S) Dibromofluoromethane	94.3			65.0-129
(S) 4-Bromofluorobenzene	102			67.0-138

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Laboratory Control Sample (LCS)

(LCS) R3354173-1 10/25/18 22:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	0.625	0.689	110	10.0-160	
Acrylonitrile	0.625	0.549	87.9	45.0-153	
Benzene	0.125	0.126	101	70.0-123	
Bromobenzene	0.125	0.118	94.4	73.0-121	
Bromodichloromethane	0.125	0.100	80.2	73.0-121	
Bromochloromethane	0.125	0.122	97.6	77.0-128	
Bromoform	0.125	0.116	93.2	64.0-132	
Bromomethane	0.125	0.128	102	56.0-147	
n-Butylbenzene	0.125	0.119	95.1	68.0-135	
sec-Butylbenzene	0.125	0.125	99.8	74.0-130	
tert-Butylbenzene	0.125	0.127	102	75.0-127	
Carbon disulfide	0.125	0.133	106	56.0-133	
Carbon tetrachloride	0.125	0.136	109	66.0-128	
Chlorobenzene	0.125	0.132	105	76.0-128	
Chlorodibromomethane	0.125	0.128	103	74.0-127	
Chloroethane	0.125	0.130	104	61.0-134	
Chloroform	0.125	0.130	104	72.0-123	
Chloromethane	0.125	0.132	105	51.0-138	
2-Chlorotoluene	0.125	0.140	112	75.0-124	
4-Chlorotoluene	0.125	0.128	102	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.106	85.1	59.0-130	
1,2-Dibromoethane	0.125	0.127	101	74.0-128	
Dibromomethane	0.125	0.133	107	75.0-122	
1,2-Dichlorobenzene	0.125	0.127	102	76.0-124	
1,3-Dichlorobenzene	0.125	0.123	98.5	76.0-125	
1,4-Dichlorobenzene	0.125	0.117	93.2	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.116	93.1	45.0-143	
Dichlorodifluoromethane	0.125	0.126	100	43.0-156	
1,1-Dichloroethane	0.125	0.127	101	70.0-127	
1,2-Dichloroethane	0.125	0.124	99.2	65.0-131	
1,1-Dichloroethene	0.125	0.133	106	65.0-131	
cis-1,2-Dichloroethene	0.125	0.131	105	73.0-125	
trans-1,2-Dichloroethene	0.125	0.122	97.9	71.0-125	
1,2-Dichloropropane	0.125	0.128	103	74.0-125	
1,1-Dichloropropene	0.125	0.130	104	73.0-125	
1,3-Dichloropropane	0.125	0.121	97.0	80.0-125	
cis-1,3-Dichloropropene	0.125	0.119	94.9	76.0-127	
trans-1,3-Dichloropropene	0.125	0.126	101	73.0-127	
2,2-Dichloropropane	0.125	0.169	135	59.0-135	
Di-isopropyl ether	0.125	0.117	93.8	60.0-136	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3354173-1 10/25/18 22:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	0.125	0.136	109	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.125	100	57.0-150	
2-Hexanone	0.625	0.653	104	54.0-147	
n-Hexane	0.125	0.151	121	55.0-137	
Iodomethane	0.625	0.607	97.1	74.0-134	
Isopropylbenzene	0.125	0.129	103	72.0-127	
p-Isopropyltoluene	0.125	0.131	105	72.0-133	
2-Butanone (MEK)	0.625	0.618	98.8	30.0-160	
Methylene Chloride	0.125	0.130	104	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.699	112	56.0-143	
Methyl tert-butyl ether	0.125	0.131	105	66.0-132	
Naphthalene	0.125	0.113	90.7	59.0-130	
n-Propylbenzene	0.125	0.126	101	74.0-126	
Styrene	0.125	0.123	98.6	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.127	102	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.119	94.9	68.0-128	
Tetrachloroethene	0.125	0.150	120	70.0-136	
Toluene	0.125	0.128	102	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.118	94.0	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.0973	77.8	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.112	89.5	62.0-137	
1,1,1-Trichloroethane	0.125	0.147	117	69.0-126	
1,1,2-Trichloroethane	0.125	0.116	93.2	78.0-123	
Trichloroethene	0.125	0.136	109	76.0-126	
Trichlorofluoromethane	0.125	0.138	111	61.0-142	
1,2,3-Trichloropropane	0.125	0.129	103	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.124	98.8	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.121	97.0	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.130	104	73.0-127	
Vinyl acetate	0.625	0.660	106	43.0-159	
Vinyl chloride	0.125	0.128	103	63.0-134	
Xylenes, Total	0.375	0.406	108	72.0-127	
(S) Toluene-d8			102	75.0-131	
(S) Dibromofluoromethane			100	65.0-129	
(S) 4-Bromofluorobenzene			103	67.0-138	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



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, the sample preparation volume or weight values differ from the standard, 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.
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.
J4	The associated batch QC was outside the established quality control range for accuracy.
V	The sample concentration is too high to evaluate accurate spike recoveries.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 G

8 Al

9 Sc



Pace National 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.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

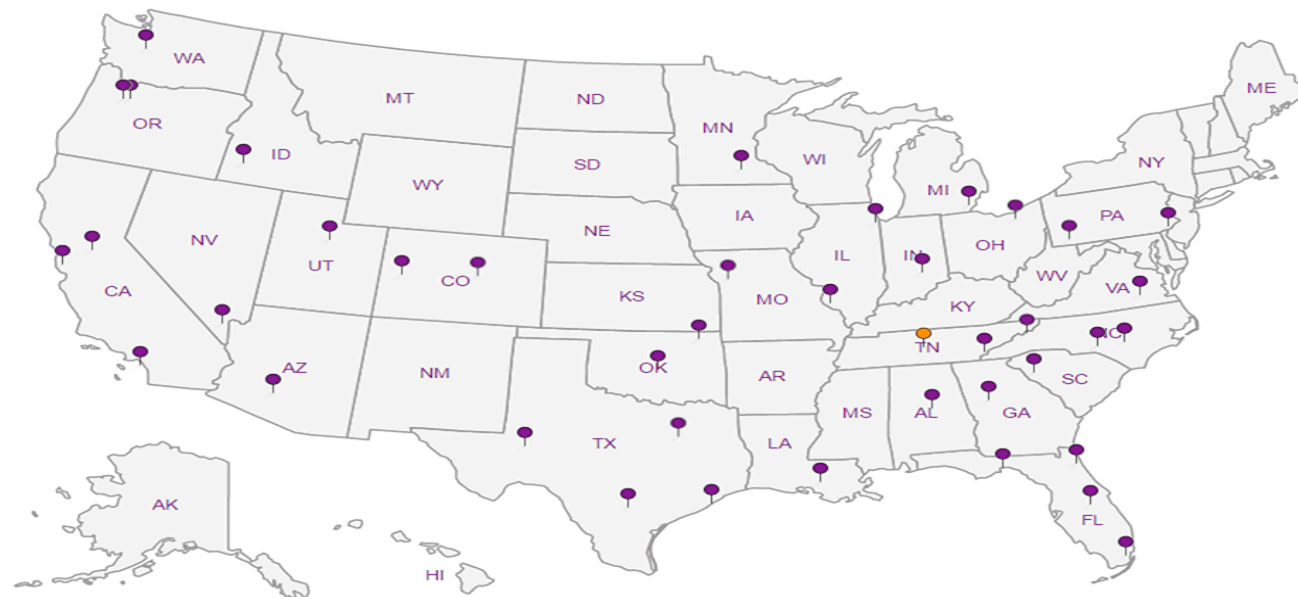
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National 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. Pace National 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:

Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;
baldeman@pesenv.com

Project

Description: American Linen

City/State

Collected: Seattle WA

Phone: 206-529-3980

Fax: 206-529-3985

Client Project #

1413.001.05

Lab Project #

PESENVSWA-ALP

Collected by (print):

R. McLaughlin / S. M. Kernan

Site/Facility ID #

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 ☒

Pres
Chk

Analysis / Container / Preservative

Chain of Custody

Page 1 of 4



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



L# L1036473

E065

Acctnum: PESENVSWA

Template: T141621

Prelogin: P676248

TSR: 110 - Brian Ford

PB:

Shipped Via:

Remarks

Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Pres	Chk	Analysis / Container / Preservative	Chain of Custody
B-263-3	Grab	SS	3	10/18/18	0804	2	X	X	VOCs V8260C 40mlAmb/MeOH5ml/Syr	
B-263-5		SS	5		0805		X	X	dry weight 2ozClr-NoPres	
B-263-8		SS	8		0806		X	X	trip VOCs V8260LLC 40mlAmb-HCl-Bik	
B-263-10		SS	10		0807		X	X		
B-263-15		SS	15		0815		X	X		
B-263-18		SS	18		0824		X	X		
B-264-3		SS	3		0920		X	X		
B-264-5		SS	5		0921		X	X		
B-264-8		SS	8		0925		X	X		
B-264-10	✓	SS	10	✓	0926		X	X		

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

RAD SCREEN: <0.5 mR/hr

pH Temp

Flow Other

Samples returned via:

UPS FedEx Courier

Tracking # 4196 3258 7989

Relinquished by: (Signature)

[Signature]

Date:

10/18/18

Time:

1620

Received by: (Signature)

[Signature]

Trip Blank Received: Yes/No

1 No / MeOH

TBR

Temp: 3.5/2.6 °C

Bottles Received: 72

Sample Receipt Checklist

COC Seal Present/Intact: ☒ 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: ☐ N

Relinquished by: (Signature)

[Signature]

Date:

Time:

Received for lab by: (Signature)

[Signature]

Date:

10/18/18

Time:

8:45

If preservation required by Login: Date/Time

10-148

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:

Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;
bhaldean@pesenv.com

Project

Description: American Linen

City/State

Collected: Seattle WA

Phone: 206-529-3980

Fax: 206-529-3985

Client Project #

1413.001.05

Lab Project #

PESENVSWA-ALP

Collected by (print):

R. McLaughlin / S. McKernan

Site/Facility ID #

P.O. #

Collected by (Signature):

R. McLaughlin

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 ☒

Pres
Chk

Analysis / Container / Preservative

Chain of Custody

Page 2 of 4



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



L# L1036473

Table #

Acctnum: PESENVSWA

Template: T141621

Prelogin: P676248

TSR: 110 - Brian Ford

PB:

Shipped Via:

Remarks

Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
26 B-264-14	Grab	SS	14	10/18/18	0944	2
B-264-15		SS	15		0942	
B-264-16		SS	16		0958	
B-265-3		SS	3		1038	
B-265-5		SS	5		1040	
B-265-8		SS	8		1047	
B-265-10		SS	10		1050	
B-265-15		SS	15		1101	
B-265-17.5		SS	17.5		1102	
B-253A-5		SS	5		1234	

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - Waste Water
DW - Drinking Water
OT - Other

Remarks:

RAD SCREEN: <0.5 mR/hr

pH Temp

Flow Other

Samples returned via:

UPS FedEx Courier

Tracking #

Relinquished by: (Signature)

R. McLaughlin

Date:

10/18/18

Time:

1628

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Trip Blank Received: Yes/No

1 Yes/MeOH

TBR

Temp: 3.5 (7.3) °C

Bottles Received: 72

Date: 10/18/18

Time: 8:45

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: ☒ N

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

Analysis / Container / Preservative

Chain of Custody Page 3 of 4



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



Report to:
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;
bhaldeman@pesenv.com

Project
Description: American Linen

City/State
Collected: Seattle WA

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

Client Project #
1413.001.05

Lab Project #
PESENVSWA-ALP

Collected by (print):
R. McLaughlin / S. McKernan

Site/Facility ID #

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Same Day ☒ Five Day
Next Day ☐ 5 Day (Rad Only)
Two Day ☐ 10 Day (Rad Only)
Three Day ☐

Date Results Needed

No.
of
Cntrs

Immediately
Packed on Ice N ☐ Y ☒

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
B-253A-8	Grab	SS	8	10/18/18	1238	2
B-253A-10		SS	10		1240	
B-253A-15		SS	15		1244	
B-253A-20		SS	20		1305	
B-266-3		SS	3		1334	
B-266-5		SS	5		1335	
B-266-8		SS	8		1338	
B-266-10		SS	10		1339	
B-266-15		SS	15		1348	
B-266-20		SS	20		1353	

VOCs V8260C 40mlAmb/MeOH5ml/Syr

dry weight 2ozClr-NoPres

trip VOCs V8260LLC 40mlAmb-HCl-Bik

L# L1036473

Table #

Acctnum: PESENVSWA

Template: T141621

Prelogin: P676248

TSR: 110 - Brian Ford

PB:

Shipped Via:

Remarks Sample # (lab only)

-19
20
21
22
23
24
25
26
27

HOLD

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

Remarks:

RAD SCREEN: <0.5 mR/hr

pH Temp

Flow Other

Samples returned via:

UPS FedEx Courier

Tracking #

Relinquished by: (Signature)

Date: 10/18/18 Time: 1620

Received by: (Signature)

Trip Blank Received: Yes/No
1 NA/MeOH
TBR

Relinquished by: (Signature)

Date: Time:

Received by: (Signature)

Temp: 35.17/3.6 °C Bottles Received: 72

Relinquished by: (Signature)

Date: Time:

Received for lab by: (Signature)

Date: 10/18/18 Time: 8:45

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
VGA Zero Headspace: Y N
Preservation Correct/Checked: Y N

If preservation required by Login: Date/Time

PES Environmental, Inc.- WA

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Report to:
Brian O'Neal/Bill Haldeman

Project
Description: American Linen

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

Collected by (print):
R. McLaughlin / S. McKernan

Collected by (signature):

Immediately
Packed on Ice N ☐ Y ☒

Billing Information:

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

Email To: boneal@pesenv.com;
baldeman@pesenv.com

City/State
Collected: Seattle WA

Lab Project #
PESENVSWA-ALP

P.O. #

Quote #

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

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 4 of 4



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



L# L1036473

Table #

Acctnum: PESENVSWA

Template: T141621

Prelogin: P676248

TSR: 110 - Brian Ford

PB:

Shipped Via:

Remarks Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOCs V8260C 40mlAmb/MeOH5ml/Syr	dry weight 2ozClr-NoPres	trip VOCs V8260LLC 40mlAmb-HCl-Bik										
B-267-2.5	Grab	SS	2.5	10/18/18	1443	2	X	X											28
B-267-5		SS	5		1444														29
B-267-8		SS	8		1449														30
B-267-10		SS	10		1450														31
B-267-15		SS	15		1455		X	X											32
B-267-20	X	SS	20		1517		X	X											33
		SS																	
		SS																	
		SS																	
		SS																	

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

Remarks:

RAD SCREEN: <0.5 mR/hr

pH Temp

Flow Other

Samples returned via:

UPS FedEx Courier

Tracking #

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes / No
1 Yes / No
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: 3.5°C
Bottles Received: 72

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: 10/19/18
Time: 8:45

Hold:

Condition:
NCF / OK

Sample Receipt Checklist

COC Seal Present/Intact: ☒ 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: ☒ N

If preservation required by Login: Date/Time

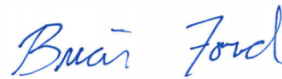
October 30, 2018

PES Environmental, Inc.- WA

Sample Delivery Group: L1036740
Samples Received: 10/20/2018
Project Number: 1413.001.05
Description: American Linen

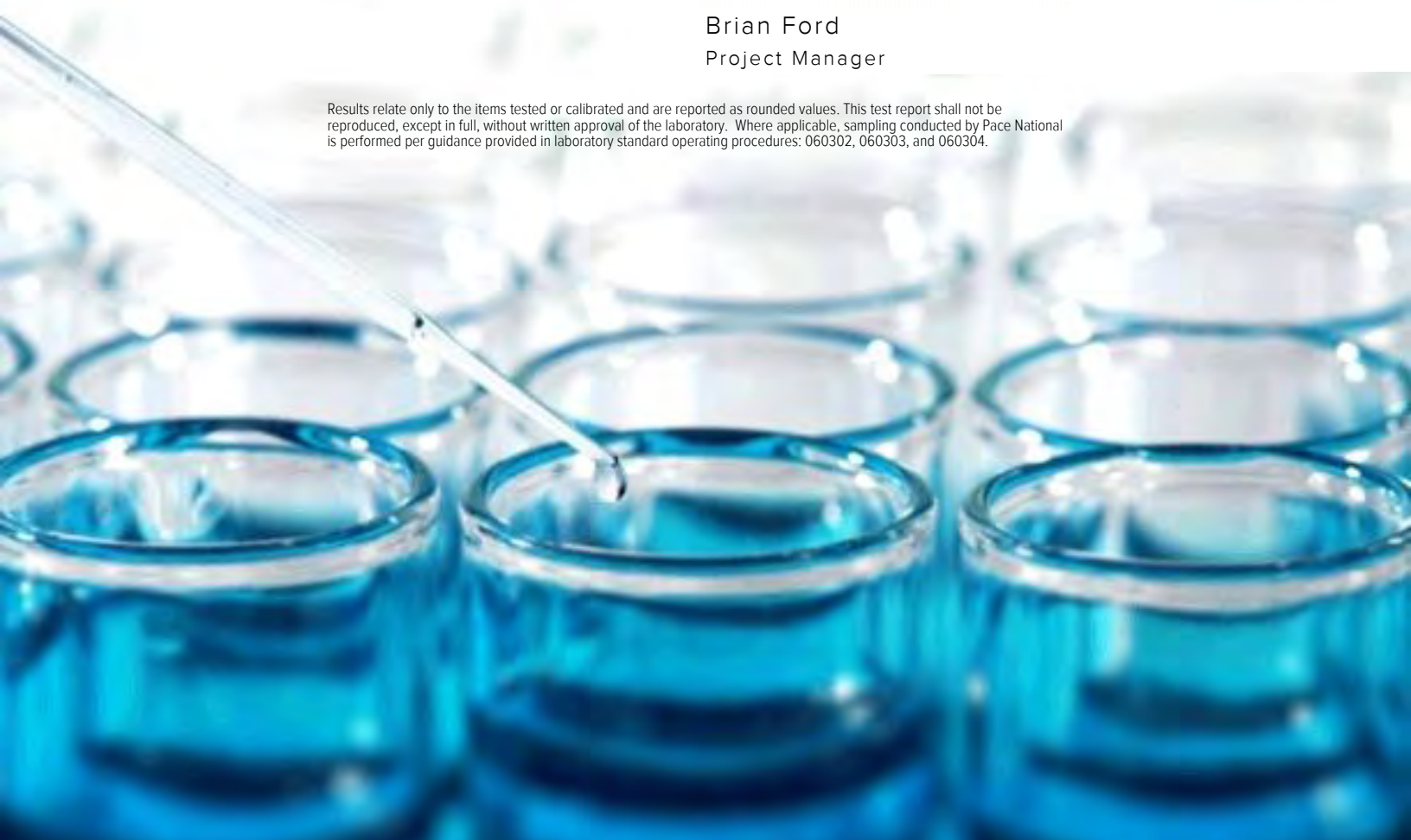
Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford
Project Manager

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 Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.





Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
B-254A-27 L1036740-01	5
B-254A-30 L1036740-02	7
B-254A-35 L1036740-03	9
Qc: Quality Control Summary	11
Total Solids by Method 2540 G-2011	11
Volatile Organic Compounds (GC/MS) by Method 8260C	12
Gl: Glossary of Terms	25
Al: Accreditations & Locations	26
Sc: Sample Chain of Custody	27



SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B-254A-27 L1036740-01 Solid

			Collected by RM/SM	Collected date/time 10/19/18 08:05	Received date/time 10/20/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1186450	1	10/26/18 11:10	10/26/18 11:19	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1186927	1.01	10/19/18 08:05	10/26/18 13:05	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1187558	1.01	10/19/18 08:05	10/28/18 14:08	JAH

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

B-254A-30 L1036740-02 Solid

			Collected by RM/SM	Collected date/time 10/19/18 08:32	Received date/time 10/20/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1186450	1	10/26/18 11:10	10/26/18 11:19	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1186927	1	10/19/18 08:32	10/26/18 13:24	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1187558	10	10/19/18 08:32	10/28/18 14:27	JAH

B-254A-35 L1036740-03 Solid

			Collected by RM/SM	Collected date/time 10/19/18 08:35	Received date/time 10/20/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1186450	1	10/26/18 11:10	10/26/18 11:19	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1188021	1	10/19/18 08:35	10/29/18 14:59	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1188097	1	10/19/18 08:35	10/30/18 08:48	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1188332	1	10/30/18 08:37	10/30/18 10:28	DWR



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, 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
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

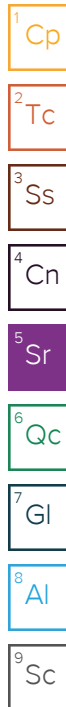


Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.5		1	10/26/2018 11:19	WG1186450

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0149	0.0273	1.01	10/28/2018 14:08	WG1187558
Acrylonitrile	U		0.00208	0.0137	1.01	10/26/2018 13:05	WG1186927
Benzene	U		0.000437	0.00109	1.01	10/26/2018 13:05	WG1186927
Bromobenzene	U		0.00115	0.0137	1.01	10/26/2018 13:05	WG1186927
Bromodichloromethane	U		0.000861	0.00273	1.01	10/26/2018 13:05	WG1186927
Bromochloromethane	U		0.00123	0.00546	1.01	10/26/2018 13:05	WG1186927
Bromoform	U		0.00653	0.0273	1.01	10/26/2018 13:05	WG1186927
Bromomethane	U		0.00404	0.0137	1.01	10/26/2018 13:05	WG1186927
n-Butylbenzene	U		0.00420	0.0137	1.01	10/26/2018 13:05	WG1186927
sec-Butylbenzene	U		0.00277	0.0137	1.01	10/26/2018 13:05	WG1186927
tert-Butylbenzene	U		0.00169	0.00546	1.01	10/26/2018 13:05	WG1186927
Carbon disulfide	0.00592	J	0.00443	0.0137	1.01	10/26/2018 13:05	WG1186927
Carbon tetrachloride	U		0.00118	0.00546	1.01	10/26/2018 13:05	WG1186927
Chlorobenzene	U		0.000626	0.00273	1.01	10/26/2018 13:05	WG1186927
Chlorodibromomethane	U		0.000491	0.00273	1.01	10/26/2018 13:05	WG1186927
Chloroethane	U		0.00118	0.00546	1.01	10/26/2018 13:05	WG1186927
Chloroform	U		0.000453	0.00273	1.01	10/26/2018 13:05	WG1186927
Chloromethane	U		0.00151	0.0137	1.01	10/26/2018 13:05	WG1186927
2-Chlorotoluene	U		0.00100	0.00273	1.01	10/26/2018 13:05	WG1186927
4-Chlorotoluene	U		0.00123	0.00546	1.01	10/26/2018 13:05	WG1186927
1,2-Dibromo-3-Chloropropane	U		0.00557	0.0273	1.01	10/26/2018 13:05	WG1186927
1,2-Dibromoethane	U		0.000573	0.00273	1.01	10/26/2018 13:05	WG1186927
Dibromomethane	U		0.00109	0.00546	1.01	10/26/2018 13:05	WG1186927
1,2-Dichlorobenzene	U		0.00158	0.00546	1.01	10/26/2018 13:05	WG1186927
1,3-Dichlorobenzene	U		0.00186	0.00546	1.01	10/26/2018 13:05	WG1186927
1,4-Dichlorobenzene	U		0.00215	0.00546	1.01	10/26/2018 13:05	WG1186927
Dichlorodifluoromethane	U		0.000893	0.00273	1.01	10/26/2018 13:05	WG1186927
1,1-Dichloroethane	U		0.000628	0.00273	1.01	10/26/2018 13:05	WG1186927
1,2-Dichloroethane	U		0.000519	0.00273	1.01	10/26/2018 13:05	WG1186927
1,1-Dichloroethene	U		0.000546	0.00273	1.01	10/26/2018 13:05	WG1186927
cis-1,2-Dichloroethene	0.165		0.000754	0.00273	1.01	10/26/2018 13:05	WG1186927
trans-1,2-Dichloroethene	U		0.00156	0.00546	1.01	10/26/2018 13:05	WG1186927
1,2-Dichloropropane	U		0.00138	0.00546	1.01	10/26/2018 13:05	WG1186927
1,1-Dichloropropene	U	J4	0.000764	0.00273	1.01	10/26/2018 13:05	WG1186927
1,3-Dichloropropane	U		0.00191	0.00546	1.01	10/26/2018 13:05	WG1186927
cis-1,3-Dichloropropene	U		0.000741	0.00273	1.01	10/26/2018 13:05	WG1186927
trans-1,3-Dichloropropene	U		0.00167	0.00546	1.01	10/26/2018 13:05	WG1186927
trans-1,4-Dichloro-2-butene	U		0.00152	0.00546	1.01	10/26/2018 13:05	WG1186927
2,2-Dichloropropane	U		0.000866	0.00273	1.01	10/26/2018 13:05	WG1186927
Di-isopropyl ether	U		0.000383	0.00109	1.01	10/26/2018 13:05	WG1186927
Ethylbenzene	U		0.000578	0.00273	1.01	10/26/2018 13:05	WG1186927
Hexachloro-1,3-butadiene	U		0.0138	0.0273	1.01	10/26/2018 13:05	WG1186927
2-Hexanone	U		0.0109	0.0273	1.01	10/26/2018 13:05	WG1186927
n-Hexane	U		0.00116	0.00546	1.01	10/26/2018 13:05	WG1186927
Iodomethane	U		0.00661	0.0137	1.01	10/26/2018 13:05	WG1186927
Isopropylbenzene	U		0.000943	0.00273	1.01	10/26/2018 13:05	WG1186927
p-Isopropyltoluene	U		0.00254	0.00546	1.01	10/26/2018 13:05	WG1186927
2-Butanone (MEK)	0.0430	JO	0.0136	0.0273	1.01	10/26/2018 13:05	WG1186927
Methylene Chloride	U		0.00726	0.0273	1.01	10/26/2018 13:05	WG1186927
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1.01	10/26/2018 13:05	WG1186927





Collected date/time: 10/19/18 08:05

L1036740

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000322	0.00109	1.01	10/26/2018 13:05	WG1186927
Naphthalene	U		0.00341	0.0137	1.01	10/26/2018 13:05	WG1186927
n-Propylbenzene	U		0.00129	0.00546	1.01	10/26/2018 13:05	WG1186927
Styrene	U		0.00298	0.0137	1.01	10/26/2018 13:05	WG1186927
1,1,1,2-Tetrachloroethane	U		0.000546	0.00273	1.01	10/26/2018 13:05	WG1186927
1,1,2,2-Tetrachloroethane	U		0.000426	0.00273	1.01	10/26/2018 13:05	WG1186927
1,1,2-Trichlorotrifluoroethane	U		0.000737	0.00273	1.01	10/26/2018 13:05	WG1186927
Tetrachloroethene	0.0954		0.000764	0.00273	1.01	10/26/2018 13:05	WG1186927
Toluene	0.00161	U	0.00136	0.00546	1.01	10/26/2018 13:05	WG1186927
1,2,3-Trichlorobenzene	U		0.000682	0.00273	1.01	10/26/2018 13:05	WG1186927
1,2,4-Trichlorobenzene	U		0.00527	0.0137	1.01	10/26/2018 13:05	WG1186927
1,1,1-Trichloroethane	U		0.000301	0.00273	1.01	10/26/2018 13:05	WG1186927
1,1,2-Trichloroethane	U		0.000965	0.00273	1.01	10/26/2018 13:05	WG1186927
Trichloroethene	0.0118		0.000437	0.00109	1.01	10/26/2018 13:05	WG1186927
Trichlorofluoromethane	U		0.000546	0.00273	1.01	10/26/2018 13:05	WG1186927
1,2,3-Trichloropropane	U		0.00557	0.0137	1.01	10/26/2018 13:05	WG1186927
1,2,4-Trimethylbenzene	0.00139	U	0.00127	0.00546	1.01	10/26/2018 13:05	WG1186927
1,2,3-Trimethylbenzene	U		0.00125	0.00546	1.01	10/26/2018 13:05	WG1186927
1,3,5-Trimethylbenzene	U		0.00118	0.00546	1.01	10/26/2018 13:05	WG1186927
Vinyl acetate	U		0.00385	0.0137	1.01	10/26/2018 13:05	WG1186927
Vinyl chloride	0.0508		0.000746	0.00273	1.01	10/26/2018 13:05	WG1186927
Xylenes, Total	U		0.00522	0.00710	1.01	10/26/2018 13:05	WG1186927
(S) Toluene-d8	92.4			75.0-131		10/26/2018 13:05	WG1186927
(S) Toluene-d8	82.1			75.0-131		10/28/2018 14:08	WG1187558
(S) Dibromofluoromethane	107			65.0-129		10/26/2018 13:05	WG1186927
(S) Dibromofluoromethane	86.2			65.0-129		10/28/2018 14:08	WG1187558
(S) 4-Bromofluorobenzene	108			67.0-138		10/26/2018 13:05	WG1186927
(S) 4-Bromofluorobenzene	104			67.0-138		10/28/2018 14:08	WG1187558

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	92.9		1	10/26/2018 11:19	WG1186450

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.147	0.269	10	10/28/2018 14:27	WG1187558
Acrylonitrile	U		0.00204	0.0135	1	10/26/2018 13:24	WG1186927
Benzene	U		0.000430	0.00108	1	10/26/2018 13:24	WG1186927
Bromobenzene	U		0.00113	0.0135	1	10/26/2018 13:24	WG1186927
Bromodichloromethane	U		0.000848	0.00269	1	10/26/2018 13:24	WG1186927
Bromochloromethane	U		0.00122	0.00538	1	10/26/2018 13:24	WG1186927
Bromoform	U		0.00644	0.0269	1	10/26/2018 13:24	WG1186927
Bromomethane	U		0.00398	0.0135	1	10/26/2018 13:24	WG1186927
n-Butylbenzene	U		0.00413	0.0135	1	10/26/2018 13:24	WG1186927
sec-Butylbenzene	U		0.00272	0.0135	1	10/26/2018 13:24	WG1186927
tert-Butylbenzene	U		0.00167	0.00538	1	10/26/2018 13:24	WG1186927
Carbon disulfide	0.00619	J	0.00437	0.0135	1	10/26/2018 13:24	WG1186927
Carbon tetrachloride	U		0.00116	0.00538	1	10/26/2018 13:24	WG1186927
Chlorobenzene	U		0.000617	0.00269	1	10/26/2018 13:24	WG1186927
Chlorodibromomethane	U		0.000484	0.00269	1	10/26/2018 13:24	WG1186927
Chloroethane	U		0.00116	0.00538	1	10/26/2018 13:24	WG1186927
Chloroform	U		0.000447	0.00269	1	10/26/2018 13:24	WG1186927
Chloromethane	U		0.00150	0.0135	1	10/26/2018 13:24	WG1186927
2-Chlorotoluene	U		0.000990	0.00269	1	10/26/2018 13:24	WG1186927
4-Chlorotoluene	U		0.00122	0.00538	1	10/26/2018 13:24	WG1186927
1,2-Dibromo-3-Chloropropane	U		0.00549	0.0269	1	10/26/2018 13:24	WG1186927
1,2-Dibromoethane	U		0.000565	0.00269	1	10/26/2018 13:24	WG1186927
Dibromomethane	U		0.00108	0.00538	1	10/26/2018 13:24	WG1186927
1,2-Dichlorobenzene	U		0.00156	0.00538	1	10/26/2018 13:24	WG1186927
1,3-Dichlorobenzene	U		0.00183	0.00538	1	10/26/2018 13:24	WG1186927
1,4-Dichlorobenzene	U		0.00212	0.00538	1	10/26/2018 13:24	WG1186927
Dichlorodifluoromethane	U		0.000880	0.00269	1	10/26/2018 13:24	WG1186927
1,1-Dichloroethane	U		0.000619	0.00269	1	10/26/2018 13:24	WG1186927
1,2-Dichloroethane	U		0.000511	0.00269	1	10/26/2018 13:24	WG1186927
1,1-Dichloroethene	U		0.000538	0.00269	1	10/26/2018 13:24	WG1186927
cis-1,2-Dichloroethene	0.0964		0.000743	0.00269	1	10/26/2018 13:24	WG1186927
trans-1,2-Dichloroethene	U		0.00154	0.00538	1	10/26/2018 13:24	WG1186927
1,2-Dichloropropane	U		0.00137	0.00538	1	10/26/2018 13:24	WG1186927
1,1-Dichloropropene	U	J4	0.000753	0.00269	1	10/26/2018 13:24	WG1186927
1,3-Dichloropropane	U		0.00188	0.00538	1	10/26/2018 13:24	WG1186927
cis-1,3-Dichloropropene	U		0.000730	0.00269	1	10/26/2018 13:24	WG1186927
trans-1,3-Dichloropropene	U		0.00165	0.00538	1	10/26/2018 13:24	WG1186927
trans-1,4-Dichloro-2-butene	U		0.00151	0.00538	1	10/26/2018 13:24	WG1186927
2,2-Dichloropropane	U		0.000853	0.00269	1	10/26/2018 13:24	WG1186927
Di-isopropyl ether	U		0.000377	0.00108	1	10/26/2018 13:24	WG1186927
Ethylbenzene	U		0.000570	0.00269	1	10/26/2018 13:24	WG1186927
Hexachloro-1,3-butadiene	U		0.0137	0.0269	1	10/26/2018 13:24	WG1186927
2-Hexanone	U		0.0108	0.0269	1	10/26/2018 13:24	WG1186927
n-Hexane	0.00540		0.00114	0.00538	1	10/26/2018 13:24	WG1186927
Iodomethane	U		0.00651	0.0135	1	10/26/2018 13:24	WG1186927
Isopropylbenzene	U		0.000929	0.00269	1	10/26/2018 13:24	WG1186927
p-Isopropyltoluene	U		0.00251	0.00538	1	10/26/2018 13:24	WG1186927
2-Butanone (MEK)	U		0.0135	0.0269	1	10/26/2018 13:24	WG1186927
Methylene Chloride	U		0.00715	0.0269	1	10/26/2018 13:24	WG1186927
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0269	1	10/26/2018 13:24	WG1186927

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		0.000317	0.00108	1	10/26/2018 13:24	WG1186927
Naphthalene	U		0.00336	0.0135	1	10/26/2018 13:24	WG1186927
n-Propylbenzene	U		0.00127	0.00538	1	10/26/2018 13:24	WG1186927
Styrene	U		0.00294	0.0135	1	10/26/2018 13:24	WG1186927
1,1,1,2-Tetrachloroethane	U		0.000538	0.00269	1	10/26/2018 13:24	WG1186927
1,1,2,2-Tetrachloroethane	U		0.000420	0.00269	1	10/26/2018 13:24	WG1186927
1,1,2-Trichlorotrifluoroethane	U		0.000726	0.00269	1	10/26/2018 13:24	WG1186927
Tetrachloroethene	6.24		0.00753	0.0269	10	10/28/2018 14:27	WG1187558
Toluene	0.00166	U	0.00135	0.00538	1	10/26/2018 13:24	WG1186927
1,2,3-Trichlorobenzene	U		0.000673	0.00269	1	10/26/2018 13:24	WG1186927
1,2,4-Trichlorobenzene	U		0.00519	0.0135	1	10/26/2018 13:24	WG1186927
1,1,1-Trichloroethane	U		0.000296	0.00269	1	10/26/2018 13:24	WG1186927
1,1,2-Trichloroethane	U		0.000950	0.00269	1	10/26/2018 13:24	WG1186927
Trichloroethene	0.143		0.000430	0.00108	1	10/26/2018 13:24	WG1186927
Trichlorofluoromethane	U		0.000538	0.00269	1	10/26/2018 13:24	WG1186927
1,2,3-Trichloropropane	U		0.00549	0.0135	1	10/26/2018 13:24	WG1186927
1,2,4-Trimethylbenzene	0.00210	U	0.00125	0.00538	1	10/26/2018 13:24	WG1186927
1,2,3-Trimethylbenzene	U		0.00124	0.00538	1	10/26/2018 13:24	WG1186927
1,3,5-Trimethylbenzene	U		0.00116	0.00538	1	10/26/2018 13:24	WG1186927
Vinyl acetate	U		0.00379	0.0135	1	10/26/2018 13:24	WG1186927
Vinyl chloride	U		0.000735	0.00269	1	10/26/2018 13:24	WG1186927
Xylenes, Total	U		0.00514	0.00700	1	10/26/2018 13:24	WG1186927
(S) Toluene-d8	102			75.0-131		10/26/2018 13:24	WG1186927
(S) Toluene-d8	97.8			75.0-131		10/28/2018 14:27	WG1187558
(S) Dibromofluoromethane	109			65.0-129		10/26/2018 13:24	WG1186927
(S) Dibromofluoromethane	94.7			65.0-129		10/28/2018 14:27	WG1187558
(S) 4-Bromofluorobenzene	106			67.0-138		10/26/2018 13:24	WG1186927
(S) 4-Bromofluorobenzene	103			67.0-138		10/28/2018 14:27	WG1187558

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	94.9		1	10/26/2018 11:19	WG1186450

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0144	0.0263	1	10/30/2018 08:48	WG1188097
Acrylonitrile	U		0.00200	0.0132	1	10/29/2018 14:59	WG1188021
Benzene	U		0.000421	0.00105	1	10/29/2018 14:59	WG1188021
Bromobenzene	U		0.00111	0.0132	1	10/29/2018 14:59	WG1188021
Bromodichloromethane	U		0.000830	0.00263	1	10/29/2018 14:59	WG1188021
Bromochloromethane	U		0.00119	0.00527	1	10/29/2018 14:59	WG1188021
Bromoform	U		0.00630	0.0263	1	10/29/2018 14:59	WG1188021
Bromomethane	U		0.00390	0.0132	1	10/29/2018 14:59	WG1188021
n-Butylbenzene	U		0.00405	0.0132	1	10/29/2018 14:59	WG1188021
sec-Butylbenzene	U		0.00267	0.0132	1	10/29/2018 14:59	WG1188021
tert-Butylbenzene	U		0.00163	0.00527	1	10/29/2018 14:59	WG1188021
Carbon disulfide	U		0.00428	0.0132	1	10/29/2018 14:59	WG1188021
Carbon tetrachloride	U		0.00114	0.00527	1	10/29/2018 14:59	WG1188021
Chlorobenzene	U		0.000604	0.00263	1	10/29/2018 14:59	WG1188021
Chlorodibromomethane	U		0.000474	0.00263	1	10/29/2018 14:59	WG1188021
Chloroethane	U		0.00114	0.00527	1	10/29/2018 14:59	WG1188021
Chloroform	0.000575	J	0.000437	0.00263	1	10/29/2018 14:59	WG1188021
Chloromethane	U		0.00146	0.0132	1	10/29/2018 14:59	WG1188021
2-Chlorotoluene	U		0.000969	0.00263	1	10/29/2018 14:59	WG1188021
4-Chlorotoluene	U		0.00119	0.00527	1	10/29/2018 14:59	WG1188021
1,2-Dibromo-3-Chloropropane	U		0.00537	0.0263	1	10/29/2018 14:59	WG1188021
1,2-Dibromoethane	U		0.000553	0.00263	1	10/29/2018 14:59	WG1188021
Dibromomethane	U		0.00105	0.00527	1	10/29/2018 14:59	WG1188021
1,2-Dichlorobenzene	U		0.00153	0.00527	1	10/29/2018 14:59	WG1188021
1,3-Dichlorobenzene	U		0.00179	0.00527	1	10/29/2018 14:59	WG1188021
1,4-Dichlorobenzene	U		0.00208	0.00527	1	10/29/2018 14:59	WG1188021
Dichlorodifluoromethane	U		0.000862	0.00263	1	10/30/2018 10:28	WG1188332
1,1-Dichloroethane	U		0.000606	0.00263	1	10/29/2018 14:59	WG1188021
1,2-Dichloroethane	U		0.000500	0.00263	1	10/29/2018 14:59	WG1188021
1,1-Dichloroethene	U		0.000527	0.00263	1	10/29/2018 14:59	WG1188021
cis-1,2-Dichloroethene	0.143		0.000727	0.00263	1	10/29/2018 14:59	WG1188021
trans-1,2-Dichloroethene	U		0.00151	0.00527	1	10/29/2018 14:59	WG1188021
1,2-Dichloropropane	U		0.00134	0.00527	1	10/30/2018 10:28	WG1188332
1,1-Dichloropropene	U		0.000737	0.00263	1	10/29/2018 14:59	WG1188021
1,3-Dichloropropane	U		0.00184	0.00527	1	10/29/2018 14:59	WG1188021
cis-1,3-Dichloropropene	U		0.000714	0.00263	1	10/29/2018 14:59	WG1188021
trans-1,3-Dichloropropene	U		0.00161	0.00527	1	10/29/2018 14:59	WG1188021
trans-1,4-Dichloro-2-butene	U		0.00147	0.00527	1	10/29/2018 14:59	WG1188021
2,2-Dichloropropane	U	J4	0.000835	0.00263	1	10/29/2018 14:59	WG1188021
Di-isopropyl ether	U		0.000369	0.00105	1	10/29/2018 14:59	WG1188021
Ethylbenzene	U		0.000558	0.00263	1	10/29/2018 14:59	WG1188021
Hexachloro-1,3-butadiene	U		0.0134	0.0263	1	10/29/2018 14:59	WG1188021
2-Hexanone	U		0.0105	0.0263	1	10/29/2018 14:59	WG1188021
n-Hexane	U		0.00112	0.00527	1	10/29/2018 14:59	WG1188021
Iodomethane	U		0.00637	0.0132	1	10/29/2018 14:59	WG1188021
Isopropylbenzene	U		0.000909	0.00263	1	10/29/2018 14:59	WG1188021
p-Isopropyltoluene	U		0.00245	0.00527	1	10/29/2018 14:59	WG1188021
2-Butanone (MEK)	0.0250	B J	0.0132	0.0263	1	10/29/2018 14:59	WG1188021
Methylene Chloride	U		0.00699	0.0263	1	10/29/2018 14:59	WG1188021
4-Methyl-2-pentanone (MIBK)	U		0.0105	0.0263	1	10/29/2018 14:59	WG1188021

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/19/18 08:35

L1036740

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000311	0.00105	1	10/29/2018 14:59	WG1188021
Naphthalene	U		0.00329	0.0132	1	10/29/2018 14:59	WG1188021
n-Propylbenzene	U		0.00124	0.00527	1	10/29/2018 14:59	WG1188021
Styrene	U		0.00288	0.0132	1	10/29/2018 14:59	WG1188021
1,1,1,2-Tetrachloroethane	U		0.000527	0.00263	1	10/30/2018 10:28	WG1188332
1,1,2,2-Tetrachloroethane	U		0.000411	0.00263	1	10/29/2018 14:59	WG1188021
1,1,2-Trichlorotrifluoroethane	U		0.000711	0.00263	1	10/30/2018 10:28	WG1188332
Tetrachloroethene	0.0584		0.000737	0.00263	1	10/29/2018 14:59	WG1188021
Toluene	U		0.00132	0.00527	1	10/29/2018 14:59	WG1188021
1,2,3-Trichlorobenzene	U		0.000658	0.00263	1	10/29/2018 14:59	WG1188021
1,2,4-Trichlorobenzene	U		0.00508	0.0132	1	10/29/2018 14:59	WG1188021
1,1,1-Trichloroethane	U		0.000290	0.00263	1	10/29/2018 14:59	WG1188021
1,1,2-Trichloroethane	U		0.000930	0.00263	1	10/29/2018 14:59	WG1188021
Trichloroethene	0.000679	<u>1</u>	0.000421	0.00105	1	10/30/2018 10:28	WG1188332
Trichlorofluoromethane	U		0.000527	0.00263	1	10/29/2018 14:59	WG1188021
1,2,3-Trichloropropane	U		0.00537	0.0132	1	10/29/2018 14:59	WG1188021
1,2,4-Trimethylbenzene	0.00195	<u>1</u>	0.00122	0.00527	1	10/29/2018 14:59	WG1188021
1,2,3-Trimethylbenzene	0.00126	<u>1</u>	0.00121	0.00527	1	10/29/2018 14:59	WG1188021
1,3,5-Trimethylbenzene	U		0.00114	0.00527	1	10/29/2018 14:59	WG1188021
Vinyl acetate	U		0.00371	0.0132	1	10/29/2018 14:59	WG1188021
Vinyl chloride	0.0326		0.000719	0.00263	1	10/29/2018 14:59	WG1188021
Xylenes, Total	U		0.00504	0.00685	1	10/29/2018 14:59	WG1188021
(S) Toluene-d8	55.8	<u>J2</u>		75.0-131		10/29/2018 14:59	WG1188021
(S) Toluene-d8	114			75.0-131		10/30/2018 08:48	WG1188097
(S) Toluene-d8	98.7			75.0-131		10/30/2018 10:28	WG1188332
(S) Dibromofluoromethane	98.7			65.0-129		10/29/2018 14:59	WG1188021
(S) Dibromofluoromethane	90.2			65.0-129		10/30/2018 08:48	WG1188097
(S) Dibromofluoromethane	118			65.0-129		10/30/2018 10:28	WG1188332
(S) 4-Bromofluorobenzene	103			67.0-138		10/29/2018 14:59	WG1188021
(S) 4-Bromofluorobenzene	107			67.0-138		10/30/2018 08:48	WG1188097
(S) 4-Bromofluorobenzene	103			67.0-138		10/30/2018 10:28	WG1188332

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Method Blank (MB)

(MB) R3354416-1 10/26/18 11:19

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00200			

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1036741-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1036741-02 10/26/18 11:19 • (DUP) R3354416-3 10/26/18 11:19

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	82.2	82.0	1	0.242		10

Laboratory Control Sample (LCS)

(LCS) R3354416-2 10/26/18 11:19

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3354494-2 10/26/18 11:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3354494-2 10/26/18 11:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexachloro-1,3-butadiene	U		0.0127	0.0250
n-Hexane	U		0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	100			75.0-131
(S) Dibromofluoromethane	111			65.0-129
(S) 4-Bromofluorobenzene	107			67.0-138

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Laboratory Control Sample (LCS)

(LCS) R3354494-1 10/26/18 10:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acrylonitrile	0.625	0.639	102	45.0-153	
Benzene	0.125	0.131	105	70.0-123	
Bromobenzene	0.125	0.135	108	73.0-121	
Bromodichloromethane	0.125	0.110	88.0	73.0-121	
Bromochloromethane	0.125	0.158	126	77.0-128	
Bromoform	0.125	0.131	104	64.0-132	
Bromomethane	0.125	0.124	99.3	56.0-147	
n-Butylbenzene	0.125	0.131	105	68.0-135	
sec-Butylbenzene	0.125	0.137	110	74.0-130	
tert-Butylbenzene	0.125	0.121	97.1	75.0-127	
Carbon disulfide	0.125	0.157	126	56.0-133	
Carbon tetrachloride	0.125	0.122	97.8	66.0-128	
Chlorobenzene	0.125	0.128	102	76.0-128	
Chlorodibromomethane	0.125	0.131	105	74.0-127	
Chloroethane	0.125	0.151	121	61.0-134	
Chloroform	0.125	0.148	118	72.0-123	
Chloromethane	0.125	0.137	110	51.0-138	
2-Chlorotoluene	0.125	0.145	116	75.0-124	
4-Chlorotoluene	0.125	0.139	111	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.145	116	59.0-130	
1,2-Dibromoethane	0.125	0.126	101	74.0-128	
Dibromomethane	0.125	0.135	108	75.0-122	
1,2-Dichlorobenzene	0.125	0.127	102	76.0-124	
1,3-Dichlorobenzene	0.125	0.133	106	76.0-125	
1,4-Dichlorobenzene	0.125	0.122	97.8	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.132	105	45.0-143	
Dichlorodifluoromethane	0.125	0.151	121	43.0-156	
1,1-Dichloroethane	0.125	0.158	127	70.0-127	
1,2-Dichloroethane	0.125	0.130	104	65.0-131	
1,1-Dichloroethene	0.125	0.144	115	65.0-131	
cis-1,2-Dichloroethene	0.125	0.140	112	73.0-125	
trans-1,2-Dichloroethene	0.125	0.128	102	71.0-125	
1,2-Dichloropropane	0.125	0.146	117	74.0-125	
1,1-Dichloropropene	0.125	0.172	137	73.0-125	J4
1,3-Dichloropropane	0.125	0.123	98.5	80.0-125	
cis-1,3-Dichloropropene	0.125	0.120	96.2	76.0-127	
trans-1,3-Dichloropropene	0.125	0.147	118	73.0-127	
2,2-Dichloropropane	0.125	0.168	135	59.0-135	
Di-isopropyl ether	0.125	0.154	123	60.0-136	
Ethylbenzene	0.125	0.131	105	74.0-126	

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Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Laboratory Control Sample (LCS)

(LCS) R3354494-1 10/26/18 10:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexachloro-1,3-butadiene	0.125	0.120	96.0	57.0-150	
2-Hexanone	0.625	0.911	146	54.0-147	
n-Hexane	0.125	0.125	100	55.0-137	
Iodomethane	0.625	0.771	123	74.0-134	
Isopropylbenzene	0.125	0.126	101	72.0-127	
p-Isopropyltoluene	0.125	0.137	110	72.0-133	
2-Butanone (MEK)	0.625	0.827	132	30.0-160	
Methylene Chloride	0.125	0.0987	79.0	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.836	134	56.0-143	
Methyl tert-butyl ether	0.125	0.148	118	66.0-132	
Naphthalene	0.125	0.143	114	59.0-130	
n-Propylbenzene	0.125	0.132	106	74.0-126	
Styrene	0.125	0.146	117	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.128	103	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.149	119	68.0-128	
Tetrachloroethene	0.125	0.118	94.7	70.0-136	
Toluene	0.125	0.124	99.3	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.159	127	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.112	89.4	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.132	106	62.0-137	
1,1,1-Trichloroethane	0.125	0.156	125	69.0-126	
1,1,2-Trichloroethane	0.125	0.137	110	78.0-123	
Trichloroethene	0.125	0.120	96.1	76.0-126	
Trichlorofluoromethane	0.125	0.158	126	61.0-142	
1,2,3-Trichloropropane	0.125	0.148	118	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.131	104	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.140	112	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.132	106	73.0-127	
Vinyl acetate	0.625	0.906	145	43.0-159	
Vinyl chloride	0.125	0.124	99.2	63.0-134	
Xylenes, Total	0.375	0.400	107	72.0-127	
(S) Toluene-d8			98.0	75.0-131	
(S) Dibromofluoromethane			112	65.0-129	
(S) 4-Bromofluorobenzene			103	67.0-138	

1

Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc



L1037317-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1037317-01 10/26/18 14:57 • (MS) R3354494-3 10/26/18 18:39 • (MSD) R3354494-4 10/26/18 18:57

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acrylonitrile	0.625	U			109	124	1.06	10.0-160			13.3	40
Benzene	0.125	0.00536			52.3	99.3	1.06	10.0-149		J3	59.2	37
Bromobenzene	0.125	U			76.8	107	1.06	10.0-156			33.1	38
Bromodichloromethane	0.125	U			64.3	89.5	1.06	10.0-143			32.8	37
Bromochloromethane	0.125	U			89.0	115	1.06	10.0-155			25.5	33
Bromoform	0.125	U			83.3	97.3	1.06	10.0-146			15.5	36
Bromomethane	0.125	U			35.5	73.0	1.06	10.0-149		J3	69.1	38
n-Butylbenzene	0.125	0.0141			41.5	102	1.06	10.0-160		J3	74.0	40
sec-Butylbenzene	0.125	U			49.0	116	1.06	10.0-159		J3	80.9	39
tert-Butylbenzene	0.125	U			47.0	104	1.06	10.0-156		J3	75.8	39
Carbon disulfide	0.125	U			39.3	108	1.06	10.0-145		J3	93.5	39
Carbon tetrachloride	0.125	U			30.7	90.4	1.06	10.0-145		J3	98.6	37
Chlorobenzene	0.125	U			65.8	107	1.06	10.0-152		J3	47.5	39
Chlorodibromomethane	0.125	U			84.9	102	1.06	10.0-146			18.7	37
Chloroethane	0.125	U			27.1	79.9	1.06	10.0-146		J3	98.5	40
Chloroform	0.125	U			65.1	111	1.06	10.0-146		J3	52.0	37
Chloromethane	0.125	U			44.7	114	1.06	10.0-159		J3	87.5	37
2-Chlorotoluene	0.125	U			71.1	118	1.06	10.0-159		J3	49.3	38
4-Chlorotoluene	0.125	U			63.5	108	1.06	10.0-155		J3	52.0	39
1,2-Dibromo-3-Chloropropane	0.125	U			70.7	79.3	1.06	10.0-151			11.5	39
1,2-Dibromoethane	0.125	U			86.1	96.9	1.06	10.0-148			11.8	34
Dibromomethane	0.125	U			81.2	96.9	1.06	10.0-147			17.7	35
1,2-Dichlorobenzene	0.125	U			77.9	97.9	1.06	10.0-155			22.8	37
1,3-Dichlorobenzene	0.125	U			74.7	105	1.06	10.0-153			33.4	38
1,4-Dichlorobenzene	0.125	U			71.4	97.7	1.06	10.0-151			31.1	38
trans-1,4-Dichloro-2-butene	0.125	U			85.0	85.2	1.06	10.0-152			0.256	36
Dichlorodifluoromethane	0.125	U			28.9	143	1.06	10.0-160		J3	133	35
1,1-Dichloroethane	0.125	U			62.8	121	1.06	10.0-147		J3	63.0	37
1,2-Dichloroethane	0.125	U			78.2	94.0	1.06	10.0-148			18.4	35
1,1-Dichloroethene	0.125	U			35.0	109	1.06	10.0-155		J3	103	37
cis-1,2-Dichloroethene	0.125	U			59.0	105	1.06	10.0-149		J3	55.8	37
trans-1,2-Dichloroethene	0.125	U			41.1	90.7	1.06	10.0-150		J3	75.3	37
1,2-Dichloropropane	0.125	U			78.0	120	1.06	10.0-148		J3	42.7	37
1,1-Dichloropropene	0.125	U			44.9	128	1.06	10.0-153		J3	95.8	35
1,3-Dichloropropane	0.125	U			83.8	99.1	1.06	10.0-154			16.7	35
cis-1,3-Dichloropropene	0.125	U			68.7	92.8	1.06	10.0-151			29.9	37
trans-1,3-Dichloropropene	0.125	U			85.4	108	1.06	10.0-148			23.5	37
2,2-Dichloropropane	0.125	U			35.0	86.4	1.06	10.0-138		J3	84.6	36
Di-isopropyl ether	0.125	U			80.6	114	1.06	10.0-147			34.7	36

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



L1037317-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1037317-01 10/26/18 14:57 • (MS) R3354494-3 10/26/18 18:39 • (MSD) R3354494-4 10/26/18 18:57

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.125	0.0843			0.000	51.1	1.06	10.0-160	J6	J3	65.7	38
Hexachloro-1,3-butadiene	0.125	U			45.3	97.1	1.06	10.0-160		J3	72.8	40
2-Hexanone	0.625	U			90.7	101	1.06	10.0-160			10.8	36
n-Hexane	0.125	0.00986			23.0	94.9	1.06	10.0-157		J3	109	37
Iodomethane	0.625	U			56.9	111	1.06	10.0-160		J3	64.8	38
Isopropylbenzene	0.125	0.0167			36.8	91.0	1.06	10.0-155		J3	72.1	38
p-Isopropyltoluene	0.125	U			52.4	108	1.06	10.0-160		J3	69.7	40
2-Butanone (MEK)	0.625	U			131	44.6	1.06	10.0-160		J3	98.1	40
Methylene Chloride	0.125	U			75.0	109	1.06	10.0-141			36.6	37
4-Methyl-2-pentanone (MIBK)	0.625	U			93.0	104	1.06	10.0-160			10.9	35
Methyl tert-butyl ether	0.125	U			81.3	91.7	1.06	11.0-147			12.0	35
Naphthalene	0.125	0.123			4.53	13.1	1.06	10.0-160	J6		9.31	36
n-Propylbenzene	0.125	0.0813			0.000	49.9	1.06	10.0-158	J6	J3	72.6	38
Styrene	0.125	U			83.0	124	1.06	10.0-160			39.8	40
1,1,1,2-Tetrachloroethane	0.125	U			70.8	101	1.06	10.0-149			35.6	39
1,1,2,2-Tetrachloroethane	0.125	U			103	109	1.06	10.0-160			6.11	35
Tetrachloroethene	0.125	U			35.5	96.9	1.06	10.0-156		J3	92.8	39
Toluene	0.125	0.127			0.000	46.7	1.06	10.0-156	J6	J3	46.5	38
1,1,2-Trichlorotrifluoroethane	0.125	U			27.2	111	1.06	10.0-160		J3	121	36
1,2,3-Trichlorobenzene	0.125	U			73.0	88.5	1.06	10.0-160			19.1	40
1,2,4-Trichlorobenzene	0.125	U			84.0	104	1.06	10.0-160			21.2	40
1,1,1-Trichloroethane	0.125	U			44.1	117	1.06	10.0-144		J3	90.4	35
1,1,2-Trichloroethane	0.125	U			93.5	113	1.06	10.0-160			18.8	35
Trichloroethene	0.125	U			41.6	93.3	1.06	10.0-156		J3	76.6	38
Trichlorofluoromethane	0.125	U			80.0	321	1.06	10.0-160		J3 J5	120	40
1,2,3-Trichloropropane	0.125	U			94.2	94.9	1.06	10.0-156			0.713	35
1,2,3-Trimethylbenzene	0.125	0.143			0.000	0.476	1.06	10.0-160	J6	J6	35.6	36
1,2,4-Trimethylbenzene	0.125	0.612			0.000	0.000	1.06	10.0-160	V	J3 V	48.2	36
1,3,5-Trimethylbenzene	0.125	0.146			0.000	8.92	1.06	10.0-160	J6	J3 J6	60.5	38
Vinyl acetate	0.625	U			109	124	1.06	10.0-128			12.2	40
Vinyl chloride	0.125	U			37.7	125	1.06	10.0-160		J3	107	37
Xylenes, Total	0.375	0.573			0.000	0.000	1.06	10.0-160	J6	J3 J6	57.5	38
(S) Toluene-d8					99.8	102		75.0-131				
(S) Dibromofluoromethane					109	105		65.0-129				
(S) 4-Bromofluorobenzene					107	106		67.0-138				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3354686-3 10/28/18 08:37

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Tetrachloroethene	U		0.000700	0.00250
(S) Toluene-d8	104			75.0-131
(S) Dibromofluoromethane	89.4			65.0-129
(S) 4-Bromofluorobenzene	102			67.0-138

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R3354686-1 10/28/18 07:17 • (LCSD) R3354686-2 10/28/18 07:37

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	0.625	0.479	0.492	76.6	78.8	10.0-160			2.75	31
Tetrachloroethene	0.125	0.108	0.0987	86.3	78.9	70.0-136			8.93	20
(S) Toluene-d8				98.1	98.0	75.0-131				
(S) Dibromofluoromethane				102	102	65.0-129				
(S) 4-Bromofluorobenzene				103	102	67.0-138				

Method Blank (MB)

(MB) R3354821-3 10/29/18 11:21

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250
n-Hexane	U		0.00106	0.00500

1

Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Method Blank (MB)

(MB) R3354821-3 10/29/18 11:21

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	0.0145	U	0.0125	0.0250
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	106			75.0-131
(S) Dibromofluoromethane	93.6			65.0-129
(S) 4-Bromofluorobenzene	103			67.0-138

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3354821-1 10/29/18 10:06 • (LCSD) R3354821-2 10/29/18 10:24

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 %
Acrylonitrile	0.625	0.500	0.489	80.1	78.2	45.0-153			2.33	22
Benzene	0.125	0.118	0.121	94.4	96.5	70.0-123			2.19	20
Bromobenzene	0.125	0.126	0.126	101	101	73.0-121			0.392	20
Bromodichloromethane	0.125	0.101	0.0948	80.8	75.8	73.0-121			6.36	20

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

(LCS) R3354821-1 10/29/18 10:06 • (LCSD) R3354821-2 10/29/18 10:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromochloromethane	0.125	0.114	0.117	91.4	93.7	77.0-128			2.43	20
Bromoform	0.125	0.125	0.126	100	101	64.0-132			0.268	20
Bromomethane	0.125	0.118	0.109	94.1	87.0	56.0-147			7.84	20
n-Butylbenzene	0.125	0.129	0.126	103	101	68.0-135			2.00	20
sec-Butylbenzene	0.125	0.133	0.128	107	103	74.0-130			3.56	20
tert-Butylbenzene	0.125	0.134	0.136	107	109	75.0-127			1.65	20
Carbon disulfide	0.125	0.119	0.122	95.5	97.4	56.0-133			1.96	20
Carbon tetrachloride	0.125	0.129	0.125	103	100	66.0-128			2.93	20
Chlorobenzene	0.125	0.129	0.129	103	103	76.0-128			0.137	20
Chlorodibromomethane	0.125	0.124	0.127	99.3	102	74.0-127			2.45	20
Chloroethane	0.125	0.112	0.114	89.7	90.9	61.0-134			1.31	20
Chloroform	0.125	0.114	0.117	91.3	93.6	72.0-123			2.52	20
Chloromethane	0.125	0.125	0.126	100	101	51.0-138			0.890	20
2-Chlorotoluene	0.125	0.147	0.147	118	118	75.0-124			0.249	20
4-Chlorotoluene	0.125	0.131	0.131	105	105	75.0-124			0.459	20
1,2-Dibromo-3-Chloropropane	0.125	0.123	0.126	98.4	101	59.0-130			2.70	20
1,2-Dibromoethane	0.125	0.122	0.122	97.9	97.9	74.0-128			0.0155	20
Dibromomethane	0.125	0.132	0.126	106	101	75.0-122			4.85	20
1,2-Dichlorobenzene	0.125	0.127	0.126	102	101	76.0-124			0.925	20
1,3-Dichlorobenzene	0.125	0.129	0.126	104	101	76.0-125			2.57	20
1,4-Dichlorobenzene	0.125	0.122	0.121	97.6	96.9	77.0-121			0.703	20
trans-1,4-Dichloro-2-butene	0.125	0.132	0.135	106	108	45.0-143			2.33	20
1,1-Dichloroethane	0.125	0.113	0.115	90.0	92.4	70.0-127			2.55	20
1,2-Dichloroethane	0.125	0.116	0.117	92.7	93.3	65.0-131			0.638	20
1,1-Dichloroethene	0.125	0.121	0.126	96.7	101	65.0-131			4.53	20
cis-1,2-Dichloroethene	0.125	0.119	0.117	95.5	93.7	73.0-125			1.92	20
trans-1,2-Dichloroethene	0.125	0.114	0.118	91.1	94.2	71.0-125			3.33	20
1,1-Dichloropropene	0.125	0.117	0.116	93.8	92.6	73.0-125			1.30	20
1,3-Dichloropropane	0.125	0.124	0.125	98.9	100	80.0-125			1.08	20
cis-1,3-Dichloropropene	0.125	0.124	0.122	99.3	97.5	76.0-127			1.79	20
trans-1,3-Dichloropropene	0.125	0.130	0.130	104	104	73.0-127			0.179	20
2,2-Dichloropropane	0.125	0.175	0.168	140	135	59.0-135	J4		3.68	20
Di-isopropyl ether	0.125	0.112	0.111	89.8	88.8	60.0-136			1.14	20
Ethylbenzene	0.125	0.124	0.128	99.1	102	74.0-126			3.09	20
Hexachloro-1,3-butadiene	0.125	0.115	0.118	92.3	94.0	57.0-150			1.86	20
2-Hexanone	0.625	0.634	0.651	101	104	54.0-147			2.64	20
n-Hexane	0.125	0.135	0.163	108	131	55.0-137			18.5	20
Iodomethane	0.625	0.572	0.568	91.5	90.9	74.0-134			0.658	20
Isopropylbenzene	0.125	0.140	0.140	112	112	72.0-127			0.230	20
p-Isopropyltoluene	0.125	0.143	0.136	115	109	72.0-133			5.18	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



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

(LCS) R3354821-1 10/29/18 10:06 • (LCSD) R3354821-2 10/29/18 10:24

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 %
2-Butanone (MEK)	0.625	0.548	0.590	87.8	94.3	30.0-160			7.22	24
Methylene Chloride	0.125	0.115	0.121	92.1	96.5	68.0-123			4.69	20
4-Methyl-2-pentanone (MIBK)	0.625	0.721	0.721	115	115	56.0-143			0.0954	20
Methyl tert-butyl ether	0.125	0.105	0.113	83.8	90.4	66.0-132			7.58	20
Naphthalene	0.125	0.122	0.115	97.4	92.2	59.0-130			5.49	20
n-Propylbenzene	0.125	0.134	0.134	107	107	74.0-126			0.101	20
Styrene	0.125	0.132	0.131	106	105	72.0-127			0.665	20
1,1,2,2-Tetrachloroethane	0.125	0.130	0.132	104	105	68.0-128			1.77	20
Tetrachloroethene	0.125	0.146	0.146	117	117	70.0-136			0.342	20
Toluene	0.125	0.126	0.127	101	102	75.0-121			0.402	20
1,2,3-Trichlorobenzene	0.125	0.105	0.0978	83.7	78.2	59.0-139			6.81	20
1,2,4-Trichlorobenzene	0.125	0.113	0.109	90.8	86.8	62.0-137			4.45	20
1,1,1-Trichloroethane	0.125	0.132	0.131	106	105	69.0-126			1.11	20
1,1,2-Trichloroethane	0.125	0.118	0.122	94.1	97.3	78.0-123			3.34	20
Trichlorofluoromethane	0.125	0.121	0.129	97.0	103	61.0-142			6.29	20
1,2,3-Trichloropropane	0.125	0.136	0.146	108	117	67.0-129			7.14	20
1,2,3-Trimethylbenzene	0.125	0.132	0.129	105	103	74.0-124			1.77	20
1,2,4-Trimethylbenzene	0.125	0.130	0.127	104	102	70.0-126			2.54	20
1,3,5-Trimethylbenzene	0.125	0.136	0.139	109	111	73.0-127			2.36	20
Vinyl acetate	0.625	0.801	0.810	128	130	43.0-159			1.13	20
Vinyl chloride	0.125	0.114	0.109	91.1	87.1	63.0-134			4.50	20
Xylenes, Total	0.375	0.384	0.391	102	104	72.0-127			1.81	20
(S) Toluene-d8				106	107	75.0-131				
(S) Dibromofluoromethane				94.6	95.8	65.0-129				
(S) 4-Bromofluorobenzene				107	108	67.0-138				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3355018-3 10/29/18 23:16

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
(S) Toluene-d8	108			75.0-131
(S) Dibromofluoromethane	95.2			65.0-129
(S) 4-Bromofluorobenzene	100			67.0-138

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R3355018-1 10/29/18 21:59 • (LCSD) R3355018-2 10/29/18 22:18

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	0.625	0.486	0.519	77.8	83.1	10.0-160			6.57	31
(S) Toluene-d8				105	105	75.0-131				
(S) Dibromofluoromethane				97.7	95.2	65.0-129				
(S) 4-Bromofluorobenzene				108	113	67.0-138				



Method Blank (MB)

(MB) R3355100-3 10/30/18 09:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Dichlorodifluoromethane	U		0.000818	0.00250
1,2-Dichloropropane	U		0.00127	0.00500
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
Trichloroethene	U		0.000400	0.00100
(S) Toluene-d8	98.7			75.0-131
(S) Dibromofluoromethane	115			65.0-129
(S) 4-Bromofluorobenzene	105			67.0-138

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

(LCS) R3355100-1 10/30/18 08:45 • (LCSD) R3355100-2 10/30/18 09:03

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 %
Dichlorodifluoromethane	0.125	0.154	0.151	123	121	43.0-156			1.71	20
1,2-Dichloropropane	0.125	0.145	0.149	116	119	74.0-125			2.88	20
1,1,1,2-Tetrachloroethane	0.125	0.131	0.132	105	106	74.0-129			1.28	20
1,1,2-Trichlorotrifluoroethane	0.125	0.158	0.161	126	129	61.0-139			1.90	20
Trichloroethene	0.125	0.113	0.116	90.7	92.7	76.0-126			2.18	20
(S) Toluene-d8				98.7	98.9	75.0-131				
(S) Dibromofluoromethane				120	118	65.0-129				
(S) 4-Bromofluorobenzene				104	103	67.0-138				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



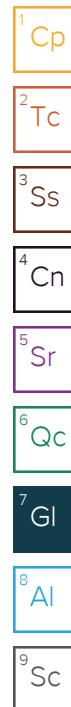
Guide to Reading and Understanding Your Laboratory Report

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, the sample preparation volume or weight values differ from the standard, 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.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
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.
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.





Pace National 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.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

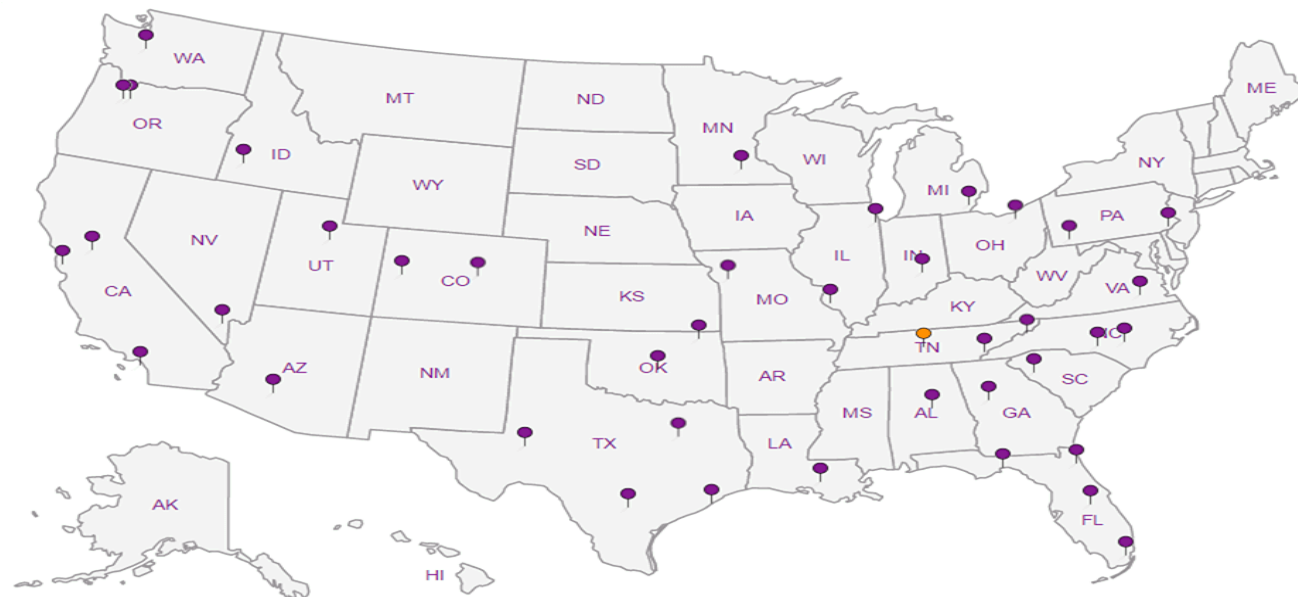
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National 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. Pace National performs all testing at our central laboratory.

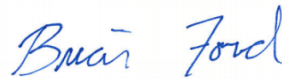


January 23, 2019

PES Environmental, Inc.- WA

Sample Delivery Group: L1061673
Samples Received: 01/16/2019
Project Number: 1413.001.05.501
Description: American Linen
Site: AMERICAN LINEN
Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford
Project Manager

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 Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Sr: Sample Results	6
B11D11-10 L1061673-01	6
B11D11-15 L1061673-02	8
B11D11-20 L1061673-03	10
B11D11-27 L1061673-04	12
B11D11-30 L1061673-05	14
B11D11-35 L1061673-06	16
B11D11-40 L1061673-07	18
B11D11-46 L1061673-08	20
B-928-46 L1061673-09	22
B11D11-50 L1061673-10	24
S1-8843-011519 L1061673-11	26
S2-8843-011519 L1061673-12	28
TRIP BLANK-011519 L1061673-13	30
Qc: Quality Control Summary	32
Total Solids by Method 2540 G-2011	32
Volatile Organic Compounds (GC/MS) by Method 8260C	35
Gl: Glossary of Terms	58
Al: Accreditations & Locations	59
Sc: Sample Chain of Custody	60



SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B11D11-10 L1061673-01 Solid

			Collected by S. McKernan	Collected date/time 01/15/19 09:19	Received date/time 01/16/19 08:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1225025	1	01/18/19 10:03	01/18/19 10:13	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1225917	1.07	01/15/19 09:19	01/20/19 07:17	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226470	1.06	01/15/19 09:19	01/21/19 21:41	JAH

¹ Cp

² Tc

³ Ss

B11D11-15 L1061673-02 Solid

			Collected by S. McKernan	Collected date/time 01/15/19 09:21	Received date/time 01/16/19 08:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1225025	1	01/18/19 10:03	01/18/19 10:13	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226032	1	01/15/19 09:21	01/20/19 12:27	JHH

⁴ Cn

⁵ Sr

⁶ Qc

B11D11-20 L1061673-03 Solid

			Collected by S. McKernan	Collected date/time 01/15/19 09:23	Received date/time 01/16/19 08:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1225025	1	01/18/19 10:03	01/18/19 10:13	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226032	1	01/15/19 09:23	01/20/19 12:47	JHH

⁷ Gl

⁸ Al

⁹ Sc

B11D11-27 L1061673-04 Solid

			Collected by S. McKernan	Collected date/time 01/15/19 09:40	Received date/time 01/16/19 08:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1224621	1	01/17/19 12:44	01/17/19 13:00	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1224822	1	01/15/19 09:40	01/17/19 20:35	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1225374	1	01/15/19 09:40	01/18/19 12:02	JAH

B11D11-30 L1061673-05 Solid

			Collected by S. McKernan	Collected date/time 01/15/19 09:55	Received date/time 01/16/19 08:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1225025	1	01/18/19 10:03	01/18/19 10:13	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226032	1	01/15/19 09:55	01/20/19 13:06	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1227024	4	01/15/19 09:55	01/22/19 22:04	ACG

B11D11-35 L1061673-06 Solid

			Collected by S. McKernan	Collected date/time 01/15/19 10:00	Received date/time 01/16/19 08:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1225025	1	01/18/19 10:03	01/18/19 10:13	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226032	1	01/15/19 10:00	01/20/19 13:48	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1227024	4	01/15/19 10:00	01/22/19 22:24	ACG

B11D11-40 L1061673-07 Solid

			Collected by S. McKernan	Collected date/time 01/15/19 10:05	Received date/time 01/16/19 08:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1225025	1	01/18/19 10:03	01/18/19 10:13	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226032	1	01/15/19 10:05	01/20/19 14:08	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1227024	1	01/15/19 10:05	01/22/19 21:24	ACG

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B11D11-46 L1061673-08 Solid

			Collected by S. McKernan	Collected date/time 01/15/19 11:12	Received date/time 01/16/19 08:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1225034	1	01/18/19 10:18	01/18/19 10:31	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226032	1	01/15/19 11:12	01/20/19 14:27	JHH

¹ Cp

² Tc

³ Ss

B-928-46 L1061673-09 Solid

			Collected by S. McKernan	Collected date/time 01/15/19 11:15	Received date/time 01/16/19 08:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1225034	1	01/18/19 10:18	01/18/19 10:31	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226032	1	01/15/19 11:15	01/20/19 14:47	JHH

⁴ Cn

⁵ Sr

⁶ Qc

B11D11-50 L1061673-10 Solid

			Collected by S. McKernan	Collected date/time 01/15/19 11:18	Received date/time 01/16/19 08:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1225034	1	01/18/19 10:18	01/18/19 10:31	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226032	1.22	01/15/19 11:18	01/20/19 15:07	JHH

⁷ Gl

⁸ Al

⁹ Sc

S1-8843-011519 L1061673-11 Solid

			Collected by S. McKernan	Collected date/time 01/15/19 11:20	Received date/time 01/16/19 08:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1224621	1	01/17/19 12:44	01/17/19 13:00	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1224822	1	01/15/19 11:20	01/17/19 20:57	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1225374	1	01/15/19 11:20	01/18/19 12:22	JAH

S2-8843-011519 L1061673-12 Solid

			Collected by S. McKernan	Collected date/time 01/15/19 11:22	Received date/time 01/16/19 08:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1224621	1	01/17/19 12:44	01/17/19 13:00	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1224822	1	01/15/19 11:22	01/17/19 21:20	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1225374	1	01/15/19 11:22	01/18/19 12:42	JAH

TRIP BLANK-011519 L1061673-13 GW

			Collected by S. McKernan	Collected date/time 01/15/19 00:00	Received date/time 01/16/19 08:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1225168	1	01/17/19 21:57	01/17/19 21:57	JAH



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, 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
Project Manager

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	79.4		1	01/18/2019 10:13	WG1225025

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0961		0.0184	0.0337	1.07	01/20/2019 07:17	WG1225917
Acrylonitrile	U		0.00256	0.0169	1.07	01/20/2019 07:17	WG1225917
Benzene	U		0.000539	0.00135	1.07	01/20/2019 07:17	WG1225917
Bromobenzene	U		0.00141	0.0169	1.07	01/20/2019 07:17	WG1225917
Bromodichloromethane	U		0.00106	0.00337	1.07	01/20/2019 07:17	WG1225917
Bromochloromethane	U		0.00152	0.00674	1.07	01/20/2019 07:17	WG1225917
Bromoform	U	<u>JO</u>	0.00806	0.0337	1.07	01/20/2019 07:17	WG1225917
Bromomethane	U		0.00499	0.0169	1.07	01/20/2019 07:17	WG1225917
n-Butylbenzene	U		0.00518	0.0169	1.07	01/20/2019 07:17	WG1225917
sec-Butylbenzene	U		0.00341	0.0169	1.07	01/20/2019 07:17	WG1225917
tert-Butylbenzene	U		0.00209	0.00674	1.07	01/20/2019 07:17	WG1225917
Carbon disulfide	U		0.00547	0.0169	1.07	01/20/2019 07:17	WG1225917
Carbon tetrachloride	U		0.00146	0.00674	1.07	01/20/2019 07:17	WG1225917
Chlorobenzene	U		0.000772	0.00337	1.07	01/20/2019 07:17	WG1225917
Chlorodibromomethane	U		0.000607	0.00337	1.07	01/20/2019 07:17	WG1225917
Chloroethane	U		0.00146	0.00674	1.07	01/20/2019 07:17	WG1225917
Chloroform	U		0.000559	0.00337	1.07	01/20/2019 07:17	WG1225917
Chloromethane	U		0.00188	0.0169	1.07	01/20/2019 07:17	WG1225917
2-Chlorotoluene	U		0.00124	0.00337	1.07	01/20/2019 07:17	WG1225917
4-Chlorotoluene	U		0.00152	0.00674	1.07	01/20/2019 07:17	WG1225917
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.00688	0.0337	1.07	01/20/2019 07:17	WG1225917
1,2-Dibromoethane	U		0.000708	0.00337	1.07	01/20/2019 07:17	WG1225917
Dibromomethane	U		0.00135	0.00674	1.07	01/20/2019 07:17	WG1225917
1,2-Dichlorobenzene	U		0.00195	0.00674	1.07	01/20/2019 07:17	WG1225917
1,3-Dichlorobenzene	U		0.00229	0.00674	1.07	01/20/2019 07:17	WG1225917
1,4-Dichlorobenzene	U		0.00266	0.00674	1.07	01/20/2019 07:17	WG1225917
Dichlorodifluoromethane	U	<u>JO</u>	0.00109	0.00334	1.06	01/21/2019 21:41	WG1226470
1,1-Dichloroethane	U		0.000775	0.00337	1.07	01/20/2019 07:17	WG1225917
1,2-Dichloroethane	U		0.000640	0.00337	1.07	01/20/2019 07:17	WG1225917
1,1-Dichloroethene	U		0.000668	0.00334	1.06	01/21/2019 21:41	WG1226470
cis-1,2-Dichloroethene	U		0.000921	0.00334	1.06	01/21/2019 21:41	WG1226470
trans-1,2-Dichloroethene	U		0.00193	0.00674	1.07	01/20/2019 07:17	WG1225917
1,2-Dichloropropane	U		0.00171	0.00674	1.07	01/20/2019 07:17	WG1225917
1,1-Dichloropropene	U		0.000944	0.00337	1.07	01/20/2019 07:17	WG1225917
1,3-Dichloropropane	U		0.00236	0.00674	1.07	01/20/2019 07:17	WG1225917
cis-1,3-Dichloropropene	U		0.000913	0.00337	1.07	01/20/2019 07:17	WG1225917
trans-1,3-Dichloropropene	U		0.00207	0.00674	1.07	01/20/2019 07:17	WG1225917
trans-1,4-Dichloro-2-butene	U		0.00186	0.00668	1.06	01/21/2019 21:41	WG1226470
2,2-Dichloropropane	U		0.00107	0.00337	1.07	01/20/2019 07:17	WG1225917
Di-isopropyl ether	U		0.000467	0.00134	1.06	01/21/2019 21:41	WG1226470
Ethylbenzene	0.000783	<u>J</u>	0.000714	0.00337	1.07	01/20/2019 07:17	WG1225917
Hexachloro-1,3-butadiene	U	<u>JO</u>	0.0171	0.0337	1.07	01/20/2019 07:17	WG1225917
2-Hexanone	U		0.0135	0.0337	1.07	01/20/2019 07:17	WG1225917
n-Hexane	U		0.00142	0.00674	1.07	01/20/2019 07:17	WG1225917
Iodomethane	U		0.00815	0.0169	1.07	01/20/2019 07:17	WG1225917
Isopropylbenzene	0.00195	<u>J</u>	0.00116	0.00337	1.07	01/20/2019 07:17	WG1225917
p-Isopropyltoluene	U		0.00314	0.00674	1.07	01/20/2019 07:17	WG1225917
2-Butanone (MEK)	0.0481		0.0169	0.0337	1.07	01/20/2019 07:17	WG1225917
Methylene Chloride	U		0.00894	0.0337	1.07	01/20/2019 07:17	WG1225917
4-Methyl-2-pentanone (MIBK)	U		0.0135	0.0337	1.07	01/20/2019 07:17	WG1225917

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		0.000398	0.00135	1.07	01/20/2019 07:17	WG1225917
Naphthalene	U	<u>JO</u>	0.00421	0.0169	1.07	01/20/2019 07:17	WG1225917
n-Propylbenzene	U		0.00159	0.00674	1.07	01/20/2019 07:17	WG1225917
Styrene	U		0.00368	0.0169	1.07	01/20/2019 07:17	WG1225917
1,1,1,2-Tetrachloroethane	U		0.000674	0.00337	1.07	01/20/2019 07:17	WG1225917
1,1,2,2-Tetrachloroethane	U		0.000520	0.00334	1.06	01/21/2019 21:41	WG1226470
1,1,2-Trichlorotrifluoroethane	U		0.000910	0.00337	1.07	01/20/2019 07:17	WG1225917
Tetrachloroethene	U		0.000944	0.00337	1.07	01/20/2019 07:17	WG1225917
Toluene	0.0101		0.00169	0.00674	1.07	01/20/2019 07:17	WG1225917
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.000843	0.00337	1.07	01/20/2019 07:17	WG1225917
1,2,4-Trichlorobenzene	U		0.00650	0.0169	1.07	01/20/2019 07:17	WG1225917
1,1,1-Trichloroethane	U		0.000370	0.00337	1.07	01/20/2019 07:17	WG1225917
1,1,2-Trichloroethane	U		0.00119	0.00337	1.07	01/20/2019 07:17	WG1225917
Trichloroethene	U		0.000539	0.00135	1.07	01/20/2019 07:17	WG1225917
Trichlorofluoromethane	U		0.000674	0.00337	1.07	01/20/2019 07:17	WG1225917
1,2,3-Trichloropropane	U		0.00688	0.0169	1.07	01/20/2019 07:17	WG1225917
1,2,4-Trimethylbenzene	U		0.00156	0.00674	1.07	01/20/2019 07:17	WG1225917
1,2,3-Trimethylbenzene	U		0.00154	0.00668	1.06	01/21/2019 21:41	WG1226470
1,3,5-Trimethylbenzene	U		0.00146	0.00674	1.07	01/20/2019 07:17	WG1225917
Vinyl acetate	U		0.00475	0.0169	1.07	01/20/2019 07:17	WG1225917
Vinyl chloride	U		0.000921	0.00337	1.07	01/20/2019 07:17	WG1225917
Xylenes, Total	U		0.00644	0.00876	1.07	01/20/2019 07:17	WG1225917
(S) Toluene-d8	97.9			75.0-131		01/20/2019 07:17	WG1225917
(S) Toluene-d8	95.3			75.0-131		01/21/2019 21:41	WG1226470
(S) Dibromofluoromethane	83.8			65.0-129		01/20/2019 07:17	WG1225917
(S) Dibromofluoromethane	94.9			65.0-129		01/21/2019 21:41	WG1226470
(S) 4-Bromofluorobenzene	96.8			67.0-138		01/20/2019 07:17	WG1225917
(S) 4-Bromofluorobenzene	98.4			67.0-138		01/21/2019 21:41	WG1226470

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.8		1	01/18/2019 10:13	WG1225025

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0185	J	0.0149	0.0272	1	01/20/2019 12:27	WG1226032
Acrylonitrile	U		0.00207	0.0136	1	01/20/2019 12:27	WG1226032
Benzene	U		0.000436	0.00109	1	01/20/2019 12:27	WG1226032
Bromobenzene	U		0.00114	0.0136	1	01/20/2019 12:27	WG1226032
Bromodichloromethane	U		0.000858	0.00272	1	01/20/2019 12:27	WG1226032
Bromochloromethane	U		0.00123	0.00544	1	01/20/2019 12:27	WG1226032
Bromoform	U		0.00651	0.0272	1	01/20/2019 12:27	WG1226032
Bromomethane	U		0.00403	0.0136	1	01/20/2019 12:27	WG1226032
n-Butylbenzene	U		0.00418	0.0136	1	01/20/2019 12:27	WG1226032
sec-Butylbenzene	U		0.00275	0.0136	1	01/20/2019 12:27	WG1226032
tert-Butylbenzene	U		0.00169	0.00544	1	01/20/2019 12:27	WG1226032
Carbon disulfide	U		0.00442	0.0136	1	01/20/2019 12:27	WG1226032
Carbon tetrachloride	U		0.00118	0.00544	1	01/20/2019 12:27	WG1226032
Chlorobenzene	U		0.000624	0.00272	1	01/20/2019 12:27	WG1226032
Chlorodibromomethane	U		0.000490	0.00272	1	01/20/2019 12:27	WG1226032
Chloroethane	U		0.00118	0.00544	1	01/20/2019 12:27	WG1226032
Chloroform	U		0.000452	0.00272	1	01/20/2019 12:27	WG1226032
Chloromethane	U		0.00151	0.0136	1	01/20/2019 12:27	WG1226032
2-Chlorotoluene	U		0.00100	0.00272	1	01/20/2019 12:27	WG1226032
4-Chlorotoluene	U		0.00123	0.00544	1	01/20/2019 12:27	WG1226032
1,2-Dibromo-3-Chloropropane	U		0.00555	0.0272	1	01/20/2019 12:27	WG1226032
1,2-Dibromoethane	U		0.000572	0.00272	1	01/20/2019 12:27	WG1226032
Dibromomethane	U		0.00109	0.00544	1	01/20/2019 12:27	WG1226032
1,2-Dichlorobenzene	U		0.00158	0.00544	1	01/20/2019 12:27	WG1226032
1,3-Dichlorobenzene	U		0.00185	0.00544	1	01/20/2019 12:27	WG1226032
1,4-Dichlorobenzene	U		0.00214	0.00544	1	01/20/2019 12:27	WG1226032
Dichlorodifluoromethane	U	JO	0.000891	0.00272	1	01/20/2019 12:27	WG1226032
1,1-Dichloroethane	U		0.000626	0.00272	1	01/20/2019 12:27	WG1226032
1,2-Dichloroethane	U		0.000517	0.00272	1	01/20/2019 12:27	WG1226032
1,1-Dichloroethene	U		0.000544	0.00272	1	01/20/2019 12:27	WG1226032
cis-1,2-Dichloroethene	0.00436		0.000751	0.00272	1	01/20/2019 12:27	WG1226032
trans-1,2-Dichloroethene	U		0.00156	0.00544	1	01/20/2019 12:27	WG1226032
1,2-Dichloropropane	U		0.00138	0.00544	1	01/20/2019 12:27	WG1226032
1,1-Dichloropropene	U		0.000762	0.00272	1	01/20/2019 12:27	WG1226032
1,3-Dichloropropane	U		0.00191	0.00544	1	01/20/2019 12:27	WG1226032
cis-1,3-Dichloropropene	U		0.000738	0.00272	1	01/20/2019 12:27	WG1226032
trans-1,3-Dichloropropene	U		0.00167	0.00544	1	01/20/2019 12:27	WG1226032
trans-1,4-Dichloro-2-butene	U		0.00152	0.00544	1	01/20/2019 12:27	WG1226032
2,2-Dichloropropane	U		0.000863	0.00272	1	01/20/2019 12:27	WG1226032
Di-isopropyl ether	U		0.000381	0.00109	1	01/20/2019 12:27	WG1226032
Ethylbenzene	U		0.000577	0.00272	1	01/20/2019 12:27	WG1226032
Hexachloro-1,3-butadiene	U		0.0138	0.0272	1	01/20/2019 12:27	WG1226032
2-Hexanone	U		0.0109	0.0272	1	01/20/2019 12:27	WG1226032
n-Hexane	0.00130	J	0.00115	0.00544	1	01/20/2019 12:27	WG1226032
Iodomethane	U		0.00659	0.0136	1	01/20/2019 12:27	WG1226032
Isopropylbenzene	U		0.000940	0.00272	1	01/20/2019 12:27	WG1226032
p-Isopropyltoluene	U		0.00254	0.00544	1	01/20/2019 12:27	WG1226032
2-Butanone (MEK)	U		0.0136	0.0272	1	01/20/2019 12:27	WG1226032
Methylene Chloride	U		0.00723	0.0272	1	01/20/2019 12:27	WG1226032
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0272	1	01/20/2019 12:27	WG1226032

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		0.000321	0.00109	1	01/20/2019 12:27	WG1226032
Naphthalene	U	<u>JO</u>	0.00340	0.0136	1	01/20/2019 12:27	WG1226032
n-Propylbenzene	U		0.00128	0.00544	1	01/20/2019 12:27	WG1226032
Styrene	U		0.00297	0.0136	1	01/20/2019 12:27	WG1226032
1,1,1,2-Tetrachloroethane	U		0.000544	0.00272	1	01/20/2019 12:27	WG1226032
1,1,2,2-Tetrachloroethane	U		0.000425	0.00272	1	01/20/2019 12:27	WG1226032
1,1,2-Trichlorotrifluoroethane	U	<u>JO</u>	0.000735	0.00272	1	01/20/2019 12:27	WG1226032
Tetrachloroethene	0.00295		0.000762	0.00272	1	01/20/2019 12:27	WG1226032
Toluene	U		0.00136	0.00544	1	01/20/2019 12:27	WG1226032
1,2,3-Trichlorobenzene	U	<u>JO J4</u>	0.000680	0.00272	1	01/20/2019 12:27	WG1226032
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.00525	0.0136	1	01/20/2019 12:27	WG1226032
1,1,1-Trichloroethane	U		0.000299	0.00272	1	01/20/2019 12:27	WG1226032
1,1,2-Trichloroethane	U		0.000961	0.00272	1	01/20/2019 12:27	WG1226032
Trichloroethene	0.00351		0.000436	0.00109	1	01/20/2019 12:27	WG1226032
Trichlorofluoromethane	U		0.000544	0.00272	1	01/20/2019 12:27	WG1226032
1,2,3-Trichloropropane	U		0.00555	0.0136	1	01/20/2019 12:27	WG1226032
1,2,4-Trimethylbenzene	U		0.00126	0.00544	1	01/20/2019 12:27	WG1226032
1,2,3-Trimethylbenzene	U		0.00125	0.00544	1	01/20/2019 12:27	WG1226032
1,3,5-Trimethylbenzene	U		0.00118	0.00544	1	01/20/2019 12:27	WG1226032
Vinyl acetate	U	<u>JO</u>	0.00383	0.0136	1	01/20/2019 12:27	WG1226032
Vinyl chloride	U	<u>JO</u>	0.000744	0.00272	1	01/20/2019 12:27	WG1226032
Xylenes, Total	U		0.00520	0.00708	1	01/20/2019 12:27	WG1226032
(S) Toluene-d8	109			75.0-131		01/20/2019 12:27	WG1226032
(S) Dibromofluoromethane	91.7			65.0-129		01/20/2019 12:27	WG1226032
(S) 4-Bromofluorobenzene	98.2			67.0-138		01/20/2019 12:27	WG1226032

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

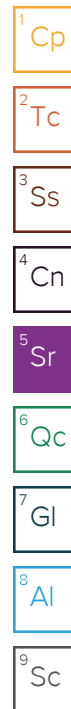


Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.1		1	01/18/2019 10:13	WG1225025

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0157	0.0287	1	01/20/2019 12:47	WG1226032
Acrylonitrile	U		0.00218	0.0144	1	01/20/2019 12:47	WG1226032
Benzene	U		0.000459	0.00115	1	01/20/2019 12:47	WG1226032
Bromobenzene	U		0.00121	0.0144	1	01/20/2019 12:47	WG1226032
Bromodichloromethane	U		0.000905	0.00287	1	01/20/2019 12:47	WG1226032
Bromochloromethane	U		0.00130	0.00574	1	01/20/2019 12:47	WG1226032
Bromoform	U		0.00687	0.0287	1	01/20/2019 12:47	WG1226032
Bromomethane	U		0.00425	0.0144	1	01/20/2019 12:47	WG1226032
n-Butylbenzene	U		0.00441	0.0144	1	01/20/2019 12:47	WG1226032
sec-Butylbenzene	U		0.00290	0.0144	1	01/20/2019 12:47	WG1226032
tert-Butylbenzene	U		0.00178	0.00574	1	01/20/2019 12:47	WG1226032
Carbon disulfide	U		0.00466	0.0144	1	01/20/2019 12:47	WG1226032
Carbon tetrachloride	U		0.00124	0.00574	1	01/20/2019 12:47	WG1226032
Chlorobenzene	U		0.000658	0.00287	1	01/20/2019 12:47	WG1226032
Chlorodibromomethane	U		0.000517	0.00287	1	01/20/2019 12:47	WG1226032
Chloroethane	U		0.00124	0.00574	1	01/20/2019 12:47	WG1226032
Chloroform	U		0.000476	0.00287	1	01/20/2019 12:47	WG1226032
Chloromethane	U		0.00160	0.0144	1	01/20/2019 12:47	WG1226032
2-Chlorotoluene	U		0.00106	0.00287	1	01/20/2019 12:47	WG1226032
4-Chlorotoluene	U		0.00130	0.00574	1	01/20/2019 12:47	WG1226032
1,2-Dibromo-3-Chloropropane	U		0.00586	0.0287	1	01/20/2019 12:47	WG1226032
1,2-Dibromoethane	U		0.000603	0.00287	1	01/20/2019 12:47	WG1226032
Dibromomethane	U		0.00115	0.00574	1	01/20/2019 12:47	WG1226032
1,2-Dichlorobenzene	U		0.00166	0.00574	1	01/20/2019 12:47	WG1226032
1,3-Dichlorobenzene	U		0.00195	0.00574	1	01/20/2019 12:47	WG1226032
1,4-Dichlorobenzene	U		0.00226	0.00574	1	01/20/2019 12:47	WG1226032
Dichlorodifluoromethane	U	JO	0.000939	0.00287	1	01/20/2019 12:47	WG1226032
1,1-Dichloroethane	U		0.000660	0.00287	1	01/20/2019 12:47	WG1226032
1,2-Dichloroethane	U		0.000545	0.00287	1	01/20/2019 12:47	WG1226032
1,1-Dichloroethene	U		0.000574	0.00287	1	01/20/2019 12:47	WG1226032
cis-1,2-Dichloroethene	0.0158		0.000792	0.00287	1	01/20/2019 12:47	WG1226032
trans-1,2-Dichloroethene	U		0.00164	0.00574	1	01/20/2019 12:47	WG1226032
1,2-Dichloropropane	U		0.00146	0.00574	1	01/20/2019 12:47	WG1226032
1,1-Dichloropropene	U		0.000804	0.00287	1	01/20/2019 12:47	WG1226032
1,3-Dichloropropane	U		0.00201	0.00574	1	01/20/2019 12:47	WG1226032
cis-1,3-Dichloropropene	U		0.000778	0.00287	1	01/20/2019 12:47	WG1226032
trans-1,3-Dichloropropene	U		0.00176	0.00574	1	01/20/2019 12:47	WG1226032
trans-1,4-Dichloro-2-butene	U		0.00161	0.00574	1	01/20/2019 12:47	WG1226032
2,2-Dichloropropane	U		0.000910	0.00287	1	01/20/2019 12:47	WG1226032
Di-isopropyl ether	U		0.000402	0.00115	1	01/20/2019 12:47	WG1226032
Ethylbenzene	U		0.000608	0.00287	1	01/20/2019 12:47	WG1226032
Hexachloro-1,3-butadiene	U		0.0146	0.0287	1	01/20/2019 12:47	WG1226032
2-Hexanone	U		0.0115	0.0287	1	01/20/2019 12:47	WG1226032
n-Hexane	U		0.00122	0.00574	1	01/20/2019 12:47	WG1226032
Iodomethane	U		0.00695	0.0144	1	01/20/2019 12:47	WG1226032
Isopropylbenzene	U		0.000991	0.00287	1	01/20/2019 12:47	WG1226032
p-Isopropyltoluene	U		0.00268	0.00574	1	01/20/2019 12:47	WG1226032
2-Butanone (MEK)	U		0.0144	0.0287	1	01/20/2019 12:47	WG1226032
Methylene Chloride	U		0.00762	0.0287	1	01/20/2019 12:47	WG1226032
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0287	1	01/20/2019 12:47	WG1226032





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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000339	0.00115	1	01/20/2019 12:47	WG1226032
Naphthalene	U	<u>JO</u>	0.00358	0.0144	1	01/20/2019 12:47	WG1226032
n-Propylbenzene	U		0.00135	0.00574	1	01/20/2019 12:47	WG1226032
Styrene	U		0.00313	0.0144	1	01/20/2019 12:47	WG1226032
1,1,1,2-Tetrachloroethane	U		0.000574	0.00287	1	01/20/2019 12:47	WG1226032
1,1,2,2-Tetrachloroethane	U		0.000448	0.00287	1	01/20/2019 12:47	WG1226032
1,1,2-Trichlorotrifluoroethane	U	<u>JO</u>	0.000775	0.00287	1	01/20/2019 12:47	WG1226032
Tetrachloroethene	0.0526		0.000804	0.00287	1	01/20/2019 12:47	WG1226032
Toluene	U		0.00144	0.00574	1	01/20/2019 12:47	WG1226032
1,2,3-Trichlorobenzene	U	<u>JO J4</u>	0.000718	0.00287	1	01/20/2019 12:47	WG1226032
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.00553	0.0144	1	01/20/2019 12:47	WG1226032
1,1,1-Trichloroethane	U		0.000316	0.00287	1	01/20/2019 12:47	WG1226032
1,1,2-Trichloroethane	U		0.00101	0.00287	1	01/20/2019 12:47	WG1226032
Trichloroethene	0.0138		0.000459	0.00115	1	01/20/2019 12:47	WG1226032
Trichlorofluoromethane	U		0.000574	0.00287	1	01/20/2019 12:47	WG1226032
1,2,3-Trichloropropane	U		0.00586	0.0144	1	01/20/2019 12:47	WG1226032
1,2,4-Trimethylbenzene	U		0.00133	0.00574	1	01/20/2019 12:47	WG1226032
1,2,3-Trimethylbenzene	U		0.00132	0.00574	1	01/20/2019 12:47	WG1226032
1,3,5-Trimethylbenzene	U		0.00124	0.00574	1	01/20/2019 12:47	WG1226032
Vinyl acetate	U	<u>JO</u>	0.00404	0.0144	1	01/20/2019 12:47	WG1226032
Vinyl chloride	U	<u>JO</u>	0.000784	0.00287	1	01/20/2019 12:47	WG1226032
Xylenes, Total	U		0.00549	0.00746	1	01/20/2019 12:47	WG1226032
(S) Toluene-d8	111			75.0-131		01/20/2019 12:47	WG1226032
(S) Dibromofluoromethane	90.5			65.0-129		01/20/2019 12:47	WG1226032
(S) 4-Bromofluorobenzene	108			67.0-138		01/20/2019 12:47	WG1226032

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.1		1	01/17/2019 13:00	WG1224621

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0150	0.0274	1	01/17/2019 20:35	WG1224822
Acrylonitrile	U		0.00208	0.0137	1	01/17/2019 20:35	WG1224822
Benzene	U		0.000439	0.00110	1	01/17/2019 20:35	WG1224822
Bromobenzene	U		0.00115	0.0137	1	01/17/2019 20:35	WG1224822
Bromodichloromethane	U		0.000865	0.00274	1	01/17/2019 20:35	WG1224822
Bromochloromethane	U		0.00124	0.00549	1	01/17/2019 20:35	WG1224822
Bromoform	U	JO	0.00656	0.0274	1	01/17/2019 20:35	WG1224822
Bromomethane	U		0.00406	0.0137	1	01/17/2019 20:35	WG1224822
n-Butylbenzene	U		0.00421	0.0137	1	01/17/2019 20:35	WG1224822
sec-Butylbenzene	U		0.00278	0.0137	1	01/17/2019 20:35	WG1224822
tert-Butylbenzene	U		0.00170	0.00549	1	01/17/2019 20:35	WG1224822
Carbon disulfide	U		0.00445	0.0137	1	01/17/2019 20:35	WG1224822
Carbon tetrachloride	U		0.00118	0.00549	1	01/17/2019 20:35	WG1224822
Chlorobenzene	U		0.000629	0.00274	1	01/17/2019 20:35	WG1224822
Chlorodibromomethane	U		0.000494	0.00274	1	01/17/2019 20:35	WG1224822
Chloroethane	U		0.00118	0.00549	1	01/17/2019 20:35	WG1224822
Chloroform	U		0.000455	0.00274	1	01/17/2019 20:35	WG1224822
Chloromethane	U		0.00152	0.0137	1	01/17/2019 20:35	WG1224822
2-Chlorotoluene	U		0.00101	0.00274	1	01/17/2019 20:35	WG1224822
4-Chlorotoluene	U		0.00124	0.00549	1	01/17/2019 20:35	WG1224822
1,2-Dibromo-3-Chloropropane	U		0.00560	0.0274	1	01/18/2019 12:02	WG1225374
1,2-Dibromoethane	U		0.000576	0.00274	1	01/17/2019 20:35	WG1224822
Dibromomethane	U		0.00110	0.00549	1	01/17/2019 20:35	WG1224822
1,2-Dichlorobenzene	U		0.00159	0.00549	1	01/17/2019 20:35	WG1224822
1,3-Dichlorobenzene	U		0.00187	0.00549	1	01/17/2019 20:35	WG1224822
1,4-Dichlorobenzene	U		0.00216	0.00549	1	01/17/2019 20:35	WG1224822
Dichlorodifluoromethane	U	JO	0.000897	0.00274	1	01/18/2019 12:02	WG1225374
1,1-Dichloroethane	U		0.000631	0.00274	1	01/17/2019 20:35	WG1224822
1,2-Dichloroethane	U		0.000521	0.00274	1	01/17/2019 20:35	WG1224822
1,1-Dichloroethene	U		0.000549	0.00274	1	01/18/2019 12:02	WG1225374
cis-1,2-Dichloroethene	0.0292		0.000757	0.00274	1	01/18/2019 12:02	WG1225374
trans-1,2-Dichloroethene	U		0.00157	0.00549	1	01/17/2019 20:35	WG1224822
1,2-Dichloropropane	U		0.00139	0.00549	1	01/17/2019 20:35	WG1224822
1,1-Dichloropropene	U		0.000768	0.00274	1	01/17/2019 20:35	WG1224822
1,3-Dichloropropane	U		0.00192	0.00549	1	01/17/2019 20:35	WG1224822
cis-1,3-Dichloropropene	U		0.000744	0.00274	1	01/17/2019 20:35	WG1224822
trans-1,3-Dichloropropene	U		0.00168	0.00549	1	01/17/2019 20:35	WG1224822
trans-1,4-Dichloro-2-butene	U		0.00154	0.00549	1	01/18/2019 12:02	WG1225374
2,2-Dichloropropane	U		0.000870	0.00274	1	01/17/2019 20:35	WG1224822
Di-isopropyl ether	U		0.000384	0.00110	1	01/18/2019 12:02	WG1225374
Ethylbenzene	U		0.000581	0.00274	1	01/17/2019 20:35	WG1224822
Hexachloro-1,3-butadiene	U	JO	0.0139	0.0274	1	01/17/2019 20:35	WG1224822
2-Hexanone	U		0.0110	0.0274	1	01/17/2019 20:35	WG1224822
n-Hexane	0.00343	J	0.00116	0.00549	1	01/17/2019 20:35	WG1224822
Iodomethane	U		0.00664	0.0137	1	01/17/2019 20:35	WG1224822
Isopropylbenzene	U		0.000947	0.00274	1	01/17/2019 20:35	WG1224822
p-Isopropyltoluene	U		0.00256	0.00549	1	01/17/2019 20:35	WG1224822
2-Butanone (MEK)	U		0.0137	0.0274	1	01/17/2019 20:35	WG1224822
Methylene Chloride	U		0.00728	0.0274	1	01/17/2019 20:35	WG1224822
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0274	1	01/17/2019 20:35	WG1224822

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		0.000324	0.00110	1	01/17/2019 20:35	WG1224822
Naphthalene	U	<u>JO</u>	0.00342	0.0137	1	01/18/2019 12:02	WG1225374
n-Propylbenzene	U		0.00129	0.00549	1	01/17/2019 20:35	WG1224822
Styrene	U		0.00300	0.0137	1	01/17/2019 20:35	WG1224822
1,1,1,2-Tetrachloroethane	U		0.000549	0.00274	1	01/17/2019 20:35	WG1224822
1,1,2,2-Tetrachloroethane	U		0.000428	0.00274	1	01/18/2019 12:02	WG1225374
1,1,2-Trichlorotrifluoroethane	U		0.000741	0.00274	1	01/17/2019 20:35	WG1224822
Tetrachloroethene	1.77		0.000768	0.00274	1	01/17/2019 20:35	WG1224822
Toluene	U		0.00137	0.00549	1	01/17/2019 20:35	WG1224822
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.000686	0.00274	1	01/18/2019 12:02	WG1225374
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.00529	0.0137	1	01/17/2019 20:35	WG1224822
1,1,1-Trichloroethane	U		0.000302	0.00274	1	01/17/2019 20:35	WG1224822
1,1,2-Trichloroethane	U		0.000969	0.00274	1	01/17/2019 20:35	WG1224822
Trichloroethene	0.0723		0.000439	0.00110	1	01/17/2019 20:35	WG1224822
Trichlorofluoromethane	U		0.000549	0.00274	1	01/17/2019 20:35	WG1224822
1,2,3-Trichloropropane	U		0.00560	0.0137	1	01/17/2019 20:35	WG1224822
1,2,4-Trimethylbenzene	U		0.00127	0.00549	1	01/17/2019 20:35	WG1224822
1,2,3-Trimethylbenzene	U	<u>JO J4</u>	0.00126	0.00549	1	01/17/2019 20:35	WG1224822
1,3,5-Trimethylbenzene	U		0.00118	0.00549	1	01/17/2019 20:35	WG1224822
Vinyl acetate	U		0.00386	0.0137	1	01/17/2019 20:35	WG1224822
Vinyl chloride	U		0.000749	0.00274	1	01/17/2019 20:35	WG1224822
Xylenes, Total	U		0.00524	0.00713	1	01/17/2019 20:35	WG1224822
(S) Toluene-d8	107			75.0-131		01/17/2019 20:35	WG1224822
(S) Toluene-d8	112			75.0-131		01/18/2019 12:02	WG1225374
(S) Dibromofluoromethane	85.8			65.0-129		01/17/2019 20:35	WG1224822
(S) Dibromofluoromethane	86.6			65.0-129		01/18/2019 12:02	WG1225374
(S) 4-Bromofluorobenzene	97.0			67.0-138		01/17/2019 20:35	WG1224822
(S) 4-Bromofluorobenzene	106			67.0-138		01/18/2019 12:02	WG1225374

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.3		1	01/18/2019 10:13	WG1225025

Volatile Organic Compounds (GC/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	0.0142	0.0260	1	01/20/2019 13:06	WG1226032
Acrylonitrile	U		0.00197	0.0130	1	01/20/2019 13:06	WG1226032
Benzene	U		0.000415	0.00104	1	01/20/2019 13:06	WG1226032
Bromobenzene	U		0.00109	0.0130	1	01/20/2019 13:06	WG1226032
Bromodichloromethane	U		0.000818	0.00260	1	01/20/2019 13:06	WG1226032
Bromochloromethane	U		0.00117	0.00519	1	01/20/2019 13:06	WG1226032
Bromoform	U		0.00621	0.0260	1	01/20/2019 13:06	WG1226032
Bromomethane	U		0.00384	0.0130	1	01/20/2019 13:06	WG1226032
n-Butylbenzene	U		0.00399	0.0130	1	01/20/2019 13:06	WG1226032
sec-Butylbenzene	U		0.00263	0.0130	1	01/20/2019 13:06	WG1226032
tert-Butylbenzene	U		0.00161	0.00519	1	01/20/2019 13:06	WG1226032
Carbon disulfide	U		0.00422	0.0130	1	01/20/2019 13:06	WG1226032
Carbon tetrachloride	U		0.00112	0.00519	1	01/20/2019 13:06	WG1226032
Chlorobenzene	U		0.000595	0.00260	1	01/20/2019 13:06	WG1226032
Chlorodibromomethane	U		0.000467	0.00260	1	01/20/2019 13:06	WG1226032
Chloroethane	U		0.00112	0.00519	1	01/20/2019 13:06	WG1226032
Chloroform	0.000542	J	0.000431	0.00260	1	01/20/2019 13:06	WG1226032
Chloromethane	U		0.00144	0.0130	1	01/20/2019 13:06	WG1226032
2-Chlorotoluene	U		0.000955	0.00260	1	01/20/2019 13:06	WG1226032
4-Chlorotoluene	U		0.00117	0.00519	1	01/20/2019 13:06	WG1226032
1,2-Dibromo-3-Chloropropane	U		0.00529	0.0260	1	01/20/2019 13:06	WG1226032
1,2-Dibromoethane	U		0.000545	0.00260	1	01/20/2019 13:06	WG1226032
Dibromomethane	U		0.00104	0.00519	1	01/20/2019 13:06	WG1226032
1,2-Dichlorobenzene	U		0.00151	0.00519	1	01/20/2019 13:06	WG1226032
1,3-Dichlorobenzene	U		0.00176	0.00519	1	01/20/2019 13:06	WG1226032
1,4-Dichlorobenzene	U		0.00205	0.00519	1	01/20/2019 13:06	WG1226032
Dichlorodifluoromethane	U	JO	0.000849	0.00260	1	01/20/2019 13:06	WG1226032
1,1-Dichloroethane	U		0.000597	0.00260	1	01/20/2019 13:06	WG1226032
1,2-Dichloroethane	U		0.000493	0.00260	1	01/20/2019 13:06	WG1226032
1,1-Dichloroethene	U		0.000519	0.00260	1	01/20/2019 13:06	WG1226032
cis-1,2-Dichloroethene	0.0698		0.000716	0.00260	1	01/20/2019 13:06	WG1226032
trans-1,2-Dichloroethene	0.00410	J	0.00148	0.00519	1	01/20/2019 13:06	WG1226032
1,2-Dichloropropane	U		0.00132	0.00519	1	01/20/2019 13:06	WG1226032
1,1-Dichloropropene	U		0.000727	0.00260	1	01/20/2019 13:06	WG1226032
1,3-Dichloropropane	U		0.00182	0.00519	1	01/20/2019 13:06	WG1226032
cis-1,3-Dichloropropene	U		0.000704	0.00260	1	01/20/2019 13:06	WG1226032
trans-1,3-Dichloropropene	U		0.00159	0.00519	1	01/20/2019 13:06	WG1226032
trans-1,4-Dichloro-2-butene	U		0.00145	0.00519	1	01/20/2019 13:06	WG1226032
2,2-Dichloropropane	U		0.000823	0.00260	1	01/20/2019 13:06	WG1226032
Di-isopropyl ether	U		0.000363	0.00104	1	01/20/2019 13:06	WG1226032
Ethylbenzene	U		0.000550	0.00260	1	01/20/2019 13:06	WG1226032
Hexachloro-1,3-butadiene	U		0.0132	0.0260	1	01/20/2019 13:06	WG1226032
2-Hexanone	U		0.0104	0.0260	1	01/20/2019 13:06	WG1226032
n-Hexane	0.00158	J	0.00110	0.00519	1	01/20/2019 13:06	WG1226032
Iodomethane	U		0.00628	0.0130	1	01/20/2019 13:06	WG1226032
Isopropylbenzene	U		0.000896	0.00260	1	01/20/2019 13:06	WG1226032
p-Isopropyltoluene	U		0.00242	0.00519	1	01/20/2019 13:06	WG1226032
2-Butanone (MEK)	U		0.0130	0.0260	1	01/20/2019 13:06	WG1226032
Methylene Chloride	U		0.00689	0.0260	1	01/20/2019 13:06	WG1226032
4-Methyl-2-pentanone (MIBK)	U		0.0104	0.0260	1	01/20/2019 13:06	WG1226032

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		0.000306	0.00104	1	01/20/2019 13:06	WG1226032
Naphthalene	U	<u>JO</u>	0.00324	0.0130	1	01/20/2019 13:06	WG1226032
n-Propylbenzene	U		0.00123	0.00519	1	01/20/2019 13:06	WG1226032
Styrene	U		0.00283	0.0130	1	01/20/2019 13:06	WG1226032
1,1,1,2-Tetrachloroethane	U		0.000519	0.00260	1	01/20/2019 13:06	WG1226032
1,1,2,2-Tetrachloroethane	U		0.000405	0.00260	1	01/20/2019 13:06	WG1226032
1,1,2-Trichlorotrifluoroethane	U	<u>JO</u>	0.000701	0.00260	1	01/20/2019 13:06	WG1226032
Tetrachloroethene	4.42		0.00291	0.0104	4	01/22/2019 22:04	WG1227024
Toluene	U		0.00130	0.00519	1	01/20/2019 13:06	WG1226032
1,2,3-Trichlorobenzene	U	<u>JO J4</u>	0.000649	0.00260	1	01/20/2019 13:06	WG1226032
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.00500	0.0130	1	01/20/2019 13:06	WG1226032
1,1,1-Trichloroethane	U		0.000286	0.00260	1	01/20/2019 13:06	WG1226032
1,1,2-Trichloroethane	U		0.000917	0.00260	1	01/20/2019 13:06	WG1226032
Trichloroethene	0.226		0.000415	0.00104	1	01/20/2019 13:06	WG1226032
Trichlorofluoromethane	U		0.000519	0.00260	1	01/20/2019 13:06	WG1226032
1,2,3-Trichloropropane	U		0.00529	0.0130	1	01/20/2019 13:06	WG1226032
1,2,4-Trimethylbenzene	0.00144	<u>J</u>	0.00120	0.00519	1	01/20/2019 13:06	WG1226032
1,2,3-Trimethylbenzene	U		0.00119	0.00519	1	01/20/2019 13:06	WG1226032
1,3,5-Trimethylbenzene	U		0.00112	0.00519	1	01/20/2019 13:06	WG1226032
Vinyl acetate	U	<u>JO</u>	0.00365	0.0130	1	01/20/2019 13:06	WG1226032
Vinyl chloride	U	<u>JO</u>	0.000709	0.00260	1	01/20/2019 13:06	WG1226032
Xylenes, Total	U		0.00496	0.00675	1	01/20/2019 13:06	WG1226032
(S) Toluene-d8	111			75.0-131		01/20/2019 13:06	WG1226032
(S) Toluene-d8	104			75.0-131		01/22/2019 22:04	WG1227024
(S) Dibromofluoromethane	89.3			65.0-129		01/20/2019 13:06	WG1226032
(S) Dibromofluoromethane	102			65.0-129		01/22/2019 22:04	WG1227024
(S) 4-Bromofluorobenzene	114			67.0-138		01/20/2019 13:06	WG1226032
(S) 4-Bromofluorobenzene	105			67.0-138		01/22/2019 22:04	WG1227024

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.4		1	01/18/2019 10:13	WG1225025

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0347		0.0153	0.0280	1	01/20/2019 13:48	WG1226032
Acrylonitrile	U		0.00213	0.0140	1	01/20/2019 13:48	WG1226032
Benzene	0.000469	J	0.000447	0.00112	1	01/20/2019 13:48	WG1226032
Bromobenzene	U		0.00117	0.0140	1	01/20/2019 13:48	WG1226032
Bromodichloromethane	U		0.000881	0.00280	1	01/20/2019 13:48	WG1226032
Bromochloromethane	U		0.00126	0.00559	1	01/20/2019 13:48	WG1226032
Bromoform	U		0.00669	0.0280	1	01/20/2019 13:48	WG1226032
Bromomethane	U		0.00414	0.0140	1	01/20/2019 13:48	WG1226032
n-Butylbenzene	U		0.00430	0.0140	1	01/20/2019 13:48	WG1226032
sec-Butylbenzene	U		0.00283	0.0140	1	01/20/2019 13:48	WG1226032
tert-Butylbenzene	U		0.00173	0.00559	1	01/20/2019 13:48	WG1226032
Carbon disulfide	U		0.00454	0.0140	1	01/20/2019 13:48	WG1226032
Carbon tetrachloride	U		0.00121	0.00559	1	01/20/2019 13:48	WG1226032
Chlorobenzene	U		0.000641	0.00280	1	01/20/2019 13:48	WG1226032
Chlorodibromomethane	U		0.000503	0.00280	1	01/20/2019 13:48	WG1226032
Chloroethane	U		0.00121	0.00559	1	01/20/2019 13:48	WG1226032
Chloroform	0.000511	J	0.000464	0.00280	1	01/20/2019 13:48	WG1226032
Chloromethane	U		0.00155	0.0140	1	01/20/2019 13:48	WG1226032
2-Chlorotoluene	U		0.00103	0.00280	1	01/20/2019 13:48	WG1226032
4-Chlorotoluene	U		0.00126	0.00559	1	01/20/2019 13:48	WG1226032
1,2-Dibromo-3-Chloropropane	U		0.00570	0.0280	1	01/20/2019 13:48	WG1226032
1,2-Dibromoethane	U		0.000587	0.00280	1	01/20/2019 13:48	WG1226032
Dibromomethane	U		0.00112	0.00559	1	01/20/2019 13:48	WG1226032
1,2-Dichlorobenzene	U		0.00162	0.00559	1	01/20/2019 13:48	WG1226032
1,3-Dichlorobenzene	U		0.00190	0.00559	1	01/20/2019 13:48	WG1226032
1,4-Dichlorobenzene	U		0.00220	0.00559	1	01/20/2019 13:48	WG1226032
Dichlorodifluoromethane	U	JO	0.000915	0.00280	1	01/20/2019 13:48	WG1226032
1,1-Dichloroethane	U		0.000643	0.00280	1	01/20/2019 13:48	WG1226032
1,2-Dichloroethane	U		0.000531	0.00280	1	01/20/2019 13:48	WG1226032
1,1-Dichloroethene	0.00171	J	0.000559	0.00280	1	01/20/2019 13:48	WG1226032
cis-1,2-Dichloroethene	0.574		0.000772	0.00280	1	01/20/2019 13:48	WG1226032
trans-1,2-Dichloroethene	0.00269	J	0.00160	0.00559	1	01/20/2019 13:48	WG1226032
1,2-Dichloropropane	U		0.00142	0.00559	1	01/20/2019 13:48	WG1226032
1,1-Dichloropropene	U		0.000783	0.00280	1	01/20/2019 13:48	WG1226032
1,3-Dichloropropane	U		0.00196	0.00559	1	01/20/2019 13:48	WG1226032
cis-1,3-Dichloropropene	U		0.000758	0.00280	1	01/20/2019 13:48	WG1226032
trans-1,3-Dichloropropene	U		0.00171	0.00559	1	01/20/2019 13:48	WG1226032
trans-1,4-Dichloro-2-butene	U		0.00157	0.00559	1	01/20/2019 13:48	WG1226032
2,2-Dichloropropane	U		0.000887	0.00280	1	01/20/2019 13:48	WG1226032
Di-isopropyl ether	U		0.000391	0.00112	1	01/20/2019 13:48	WG1226032
Ethylbenzene	U		0.000593	0.00280	1	01/20/2019 13:48	WG1226032
Hexachloro-1,3-butadiene	U		0.0142	0.0280	1	01/20/2019 13:48	WG1226032
2-Hexanone	U		0.0112	0.0280	1	01/20/2019 13:48	WG1226032
n-Hexane	0.00199	J	0.00119	0.00559	1	01/20/2019 13:48	WG1226032
Iodomethane	U		0.00677	0.0140	1	01/20/2019 13:48	WG1226032
Isopropylbenzene	U		0.000965	0.00280	1	01/20/2019 13:48	WG1226032
p-Isopropyltoluene	U		0.00261	0.00559	1	01/20/2019 13:48	WG1226032
2-Butanone (MEK)	U		0.0140	0.0280	1	01/20/2019 13:48	WG1226032
Methylene Chloride	U		0.00743	0.0280	1	01/20/2019 13:48	WG1226032
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0280	1	01/20/2019 13:48	WG1226032

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		0.000330	0.00112	1	01/20/2019 13:48	WG1226032
Naphthalene	U	<u>JO</u>	0.00349	0.0140	1	01/20/2019 13:48	WG1226032
n-Propylbenzene	U		0.00132	0.00559	1	01/20/2019 13:48	WG1226032
Styrene	U		0.00305	0.0140	1	01/20/2019 13:48	WG1226032
1,1,1,2-Tetrachloroethane	U		0.000559	0.00280	1	01/20/2019 13:48	WG1226032
1,1,2,2-Tetrachloroethane	U		0.000436	0.00280	1	01/20/2019 13:48	WG1226032
1,1,2-Trichlorotrifluoroethane	U	<u>JO</u>	0.000755	0.00280	1	01/20/2019 13:48	WG1226032
Tetrachloroethene	2.60		0.00313	0.0112	4	01/22/2019 22:24	WG1227024
Toluene	0.00160	<u>J</u>	0.00140	0.00559	1	01/20/2019 13:48	WG1226032
1,2,3-Trichlorobenzene	U	<u>JO J4</u>	0.000699	0.00280	1	01/20/2019 13:48	WG1226032
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.00539	0.0140	1	01/20/2019 13:48	WG1226032
1,1,1-Trichloroethane	U		0.000308	0.00280	1	01/20/2019 13:48	WG1226032
1,1,2-Trichloroethane	U		0.000988	0.00280	1	01/20/2019 13:48	WG1226032
Trichloroethene	0.441		0.000447	0.00112	1	01/20/2019 13:48	WG1226032
Trichlorofluoromethane	U		0.000559	0.00280	1	01/20/2019 13:48	WG1226032
1,2,3-Trichloropropane	U		0.00570	0.0140	1	01/20/2019 13:48	WG1226032
1,2,4-Trimethylbenzene	0.00131	<u>J</u>	0.00130	0.00559	1	01/20/2019 13:48	WG1226032
1,2,3-Trimethylbenzene	U		0.00129	0.00559	1	01/20/2019 13:48	WG1226032
1,3,5-Trimethylbenzene	U		0.00121	0.00559	1	01/20/2019 13:48	WG1226032
Vinyl acetate	U	<u>JO</u>	0.00394	0.0140	1	01/20/2019 13:48	WG1226032
Vinyl chloride	U	<u>JO</u>	0.000764	0.00280	1	01/20/2019 13:48	WG1226032
Xylenes, Total	U		0.00535	0.00727	1	01/20/2019 13:48	WG1226032
(S) Toluene-d8	106			75.0-131		01/20/2019 13:48	WG1226032
(S) Toluene-d8	101			75.0-131		01/22/2019 22:24	WG1227024
(S) Dibromofluoromethane	96.7			65.0-129		01/20/2019 13:48	WG1226032
(S) Dibromofluoromethane	100			65.0-129		01/22/2019 22:24	WG1227024
(S) 4-Bromofluorobenzene	88.7			67.0-138		01/20/2019 13:48	WG1226032
(S) 4-Bromofluorobenzene	104			67.0-138		01/22/2019 22:24	WG1227024

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	01/18/2019 10:13	WG1225025

Volatile Organic Compounds (GC/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	0.0150	0.0273	1	01/20/2019 14:08	WG1226032
Acrylonitrile	U		0.00207	0.0136	1	01/20/2019 14:08	WG1226032
Benzene	U		0.000437	0.00109	1	01/20/2019 14:08	WG1226032
Bromobenzene	U		0.00115	0.0136	1	01/20/2019 14:08	WG1226032
Bromodichloromethane	U		0.000860	0.00273	1	01/20/2019 14:08	WG1226032
Bromochloromethane	U		0.00123	0.00546	1	01/20/2019 14:08	WG1226032
Bromoform	U		0.00653	0.0273	1	01/20/2019 14:08	WG1226032
Bromomethane	U		0.00404	0.0136	1	01/20/2019 14:08	WG1226032
n-Butylbenzene	U		0.00419	0.0136	1	01/20/2019 14:08	WG1226032
sec-Butylbenzene	U		0.00276	0.0136	1	01/20/2019 14:08	WG1226032
tert-Butylbenzene	U		0.00169	0.00546	1	01/20/2019 14:08	WG1226032
Carbon disulfide	U		0.00443	0.0136	1	01/20/2019 14:08	WG1226032
Carbon tetrachloride	U		0.00118	0.00546	1	01/20/2019 14:08	WG1226032
Chlorobenzene	U		0.000625	0.00273	1	01/20/2019 14:08	WG1226032
Chlorodibromomethane	U		0.000491	0.00273	1	01/20/2019 14:08	WG1226032
Chloroethane	U		0.00118	0.00546	1	01/20/2019 14:08	WG1226032
Chloroform	0.000549	J	0.000453	0.00273	1	01/20/2019 14:08	WG1226032
Chloromethane	U		0.00152	0.0136	1	01/20/2019 14:08	WG1226032
2-Chlorotoluene	U		0.00100	0.00273	1	01/20/2019 14:08	WG1226032
4-Chlorotoluene	U		0.00123	0.00546	1	01/20/2019 14:08	WG1226032
1,2-Dibromo-3-Chloropropane	U		0.00557	0.0273	1	01/20/2019 14:08	WG1226032
1,2-Dibromoethane	U		0.000573	0.00273	1	01/20/2019 14:08	WG1226032
Dibromomethane	U		0.00109	0.00546	1	01/20/2019 14:08	WG1226032
1,2-Dichlorobenzene	U		0.00158	0.00546	1	01/20/2019 14:08	WG1226032
1,3-Dichlorobenzene	U		0.00186	0.00546	1	01/20/2019 14:08	WG1226032
1,4-Dichlorobenzene	U		0.00215	0.00546	1	01/20/2019 14:08	WG1226032
Dichlorodifluoromethane	U	JO	0.000893	0.00273	1	01/20/2019 14:08	WG1226032
1,1-Dichloroethane	U		0.000628	0.00273	1	01/20/2019 14:08	WG1226032
1,2-Dichloroethane	U		0.000518	0.00273	1	01/20/2019 14:08	WG1226032
1,1-Dichloroethene	U		0.000546	0.00273	1	01/20/2019 14:08	WG1226032
cis-1,2-Dichloroethene	0.275		0.000753	0.00273	1	01/20/2019 14:08	WG1226032
trans-1,2-Dichloroethene	U		0.00156	0.00546	1	01/20/2019 14:08	WG1226032
1,2-Dichloropropane	U		0.00139	0.00546	1	01/20/2019 14:08	WG1226032
1,1-Dichloropropene	U		0.000764	0.00273	1	01/20/2019 14:08	WG1226032
1,3-Dichloropropane	U		0.00191	0.00546	1	01/20/2019 14:08	WG1226032
cis-1,3-Dichloropropene	U		0.000740	0.00273	1	01/20/2019 14:08	WG1226032
trans-1,3-Dichloropropene	U		0.00167	0.00546	1	01/20/2019 14:08	WG1226032
trans-1,4-Dichloro-2-butene	U		0.00153	0.00546	1	01/20/2019 14:08	WG1226032
2,2-Dichloropropane	U		0.000866	0.00273	1	01/20/2019 14:08	WG1226032
Di-isopropyl ether	U		0.000382	0.00109	1	01/20/2019 14:08	WG1226032
Ethylbenzene	U		0.000578	0.00273	1	01/20/2019 14:08	WG1226032
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	01/20/2019 14:08	WG1226032
2-Hexanone	U		0.0109	0.0273	1	01/20/2019 14:08	WG1226032
n-Hexane	0.00137	J	0.00116	0.00546	1	01/20/2019 14:08	WG1226032
Iodomethane	U		0.00660	0.0136	1	01/20/2019 14:08	WG1226032
Isopropylbenzene	U		0.000942	0.00273	1	01/20/2019 14:08	WG1226032
p-Isopropyltoluene	U		0.00254	0.00546	1	01/20/2019 14:08	WG1226032
2-Butanone (MEK)	U		0.0136	0.0273	1	01/20/2019 14:08	WG1226032
Methylene Chloride	U		0.00725	0.0273	1	01/20/2019 14:08	WG1226032
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	01/20/2019 14:08	WG1226032

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		0.000322	0.00109	1	01/20/2019 14:08	WG1226032
Naphthalene	U	<u>JO</u>	0.00341	0.0136	1	01/20/2019 14:08	WG1226032
n-Propylbenzene	U		0.00129	0.00546	1	01/20/2019 14:08	WG1226032
Styrene	U		0.00298	0.0136	1	01/20/2019 14:08	WG1226032
1,1,1,2-Tetrachloroethane	U		0.000546	0.00273	1	01/20/2019 14:08	WG1226032
1,1,2,2-Tetrachloroethane	U		0.000426	0.00273	1	01/20/2019 14:08	WG1226032
1,1,2-Trichlorotrifluoroethane	U	<u>JO</u>	0.000737	0.00273	1	01/20/2019 14:08	WG1226032
Tetrachloroethene	0.0198		0.000764	0.00273	1	01/22/2019 21:24	WG1227024
Toluene	U		0.00136	0.00546	1	01/20/2019 14:08	WG1226032
1,2,3-Trichlorobenzene	U	<u>JO J4</u>	0.000682	0.00273	1	01/20/2019 14:08	WG1226032
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.00526	0.0136	1	01/20/2019 14:08	WG1226032
1,1,1-Trichloroethane	U		0.000300	0.00273	1	01/20/2019 14:08	WG1226032
1,1,2-Trichloroethane	U		0.000964	0.00273	1	01/20/2019 14:08	WG1226032
Trichloroethene	0.0156		0.000437	0.00109	1	01/20/2019 14:08	WG1226032
Trichlorofluoromethane	U		0.000546	0.00273	1	01/20/2019 14:08	WG1226032
1,2,3-Trichloropropane	U		0.00557	0.0136	1	01/20/2019 14:08	WG1226032
1,2,4-Trimethylbenzene	U		0.00127	0.00546	1	01/20/2019 14:08	WG1226032
1,2,3-Trimethylbenzene	U		0.00126	0.00546	1	01/20/2019 14:08	WG1226032
1,3,5-Trimethylbenzene	U		0.00118	0.00546	1	01/20/2019 14:08	WG1226032
Vinyl acetate	U	<u>JO</u>	0.00384	0.0136	1	01/20/2019 14:08	WG1226032
Vinyl chloride	U	<u>JO</u>	0.000745	0.00273	1	01/20/2019 14:08	WG1226032
Xylenes, Total	U		0.00522	0.00709	1	01/20/2019 14:08	WG1226032
(S) Toluene-d8	107			75.0-131		01/20/2019 14:08	WG1226032
(S) Toluene-d8	92.9			75.0-131		01/22/2019 21:24	WG1227024
(S) Dibromofluoromethane	97.5			65.0-129		01/20/2019 14:08	WG1226032
(S) Dibromofluoromethane	102			65.0-129		01/22/2019 21:24	WG1227024
(S) 4-Bromofluorobenzene	88.7			67.0-138		01/20/2019 14:08	WG1226032
(S) 4-Bromofluorobenzene	102			67.0-138		01/22/2019 21:24	WG1227024

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	88.7		1	01/18/2019 10:31	WG1225034

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0274	J	0.0154	0.0282	1	01/20/2019 14:27	WG1226032
Acrylonitrile	U		0.00214	0.0141	1	01/20/2019 14:27	WG1226032
Benzene	U		0.000451	0.00113	1	01/20/2019 14:27	WG1226032
Bromobenzene	U		0.00118	0.0141	1	01/20/2019 14:27	WG1226032
Bromodichloromethane	U		0.000888	0.00282	1	01/20/2019 14:27	WG1226032
Bromochloromethane	U		0.00127	0.00564	1	01/20/2019 14:27	WG1226032
Bromoform	U		0.00674	0.0282	1	01/20/2019 14:27	WG1226032
Bromomethane	U		0.00417	0.0141	1	01/20/2019 14:27	WG1226032
n-Butylbenzene	U		0.00433	0.0141	1	01/20/2019 14:27	WG1226032
sec-Butylbenzene	U		0.00285	0.0141	1	01/20/2019 14:27	WG1226032
tert-Butylbenzene	U		0.00175	0.00564	1	01/20/2019 14:27	WG1226032
Carbon disulfide	U		0.00458	0.0141	1	01/20/2019 14:27	WG1226032
Carbon tetrachloride	U		0.00122	0.00564	1	01/20/2019 14:27	WG1226032
Chlorobenzene	U		0.000646	0.00282	1	01/20/2019 14:27	WG1226032
Chlorodibromomethane	U		0.000507	0.00282	1	01/20/2019 14:27	WG1226032
Chloroethane	U		0.00122	0.00564	1	01/20/2019 14:27	WG1226032
Chloroform	0.000559	J	0.000468	0.00282	1	01/20/2019 14:27	WG1226032
Chloromethane	U		0.00157	0.0141	1	01/20/2019 14:27	WG1226032
2-Chlorotoluene	U		0.00104	0.00282	1	01/20/2019 14:27	WG1226032
4-Chlorotoluene	U		0.00127	0.00564	1	01/20/2019 14:27	WG1226032
1,2-Dibromo-3-Chloropropane	U		0.00575	0.0282	1	01/20/2019 14:27	WG1226032
1,2-Dibromoethane	U		0.000592	0.00282	1	01/20/2019 14:27	WG1226032
Dibromomethane	U		0.00113	0.00564	1	01/20/2019 14:27	WG1226032
1,2-Dichlorobenzene	U		0.00163	0.00564	1	01/20/2019 14:27	WG1226032
1,3-Dichlorobenzene	U		0.00192	0.00564	1	01/20/2019 14:27	WG1226032
1,4-Dichlorobenzene	U		0.00222	0.00564	1	01/20/2019 14:27	WG1226032
Dichlorodifluoromethane	U	JO	0.000922	0.00282	1	01/20/2019 14:27	WG1226032
1,1-Dichloroethane	U		0.000648	0.00282	1	01/20/2019 14:27	WG1226032
1,2-Dichloroethane	U		0.000535	0.00282	1	01/20/2019 14:27	WG1226032
1,1-Dichloroethene	U		0.000564	0.00282	1	01/20/2019 14:27	WG1226032
cis-1,2-Dichloroethene	0.105		0.000778	0.00282	1	01/20/2019 14:27	WG1226032
trans-1,2-Dichloroethene	0.00185	J	0.00161	0.00564	1	01/20/2019 14:27	WG1226032
1,2-Dichloropropane	U		0.00143	0.00564	1	01/20/2019 14:27	WG1226032
1,1-Dichloropropene	U		0.000789	0.00282	1	01/20/2019 14:27	WG1226032
1,3-Dichloropropane	U		0.00197	0.00564	1	01/20/2019 14:27	WG1226032
cis-1,3-Dichloropropene	U		0.000764	0.00282	1	01/20/2019 14:27	WG1226032
trans-1,3-Dichloropropene	U		0.00172	0.00564	1	01/20/2019 14:27	WG1226032
trans-1,4-Dichloro-2-butene	U		0.00158	0.00564	1	01/20/2019 14:27	WG1226032
2,2-Dichloropropane	U		0.000894	0.00282	1	01/20/2019 14:27	WG1226032
Di-isopropyl ether	U		0.000394	0.00113	1	01/20/2019 14:27	WG1226032
Ethylbenzene	U		0.000597	0.00282	1	01/20/2019 14:27	WG1226032
Hexachloro-1,3-butadiene	U		0.0143	0.0282	1	01/20/2019 14:27	WG1226032
2-Hexanone	U		0.0113	0.0282	1	01/20/2019 14:27	WG1226032
n-Hexane	0.00158	J	0.00119	0.00564	1	01/20/2019 14:27	WG1226032
Iodomethane	U		0.00682	0.0141	1	01/20/2019 14:27	WG1226032
Isopropylbenzene	U		0.000973	0.00282	1	01/20/2019 14:27	WG1226032
p-Isopropyltoluene	U		0.00263	0.00564	1	01/20/2019 14:27	WG1226032
2-Butanone (MEK)	U		0.0141	0.0282	1	01/20/2019 14:27	WG1226032
Methylene Chloride	U		0.00748	0.0282	1	01/20/2019 14:27	WG1226032
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0282	1	01/20/2019 14:27	WG1226032

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		0.000332	0.00113	1	01/20/2019 14:27	WG1226032
Naphthalene	U	JO	0.00352	0.0141	1	01/20/2019 14:27	WG1226032
n-Propylbenzene	U		0.00133	0.00564	1	01/20/2019 14:27	WG1226032
Styrene	U		0.00308	0.0141	1	01/20/2019 14:27	WG1226032
1,1,1,2-Tetrachloroethane	U		0.000564	0.00282	1	01/20/2019 14:27	WG1226032
1,1,2,2-Tetrachloroethane	U		0.000440	0.00282	1	01/20/2019 14:27	WG1226032
1,1,2-Trichlorotrifluoroethane	U	JO	0.000761	0.00282	1	01/20/2019 14:27	WG1226032
Tetrachloroethene	1.13		0.000789	0.00282	1	01/20/2019 14:27	WG1226032
Toluene	U		0.00141	0.00564	1	01/20/2019 14:27	WG1226032
1,2,3-Trichlorobenzene	U	JO J4	0.000704	0.00282	1	01/20/2019 14:27	WG1226032
1,2,4-Trichlorobenzene	U	JO	0.00543	0.0141	1	01/20/2019 14:27	WG1226032
1,1,1-Trichloroethane	U		0.000310	0.00282	1	01/20/2019 14:27	WG1226032
1,1,2-Trichloroethane	U		0.000995	0.00282	1	01/20/2019 14:27	WG1226032
Trichloroethene	0.273		0.000451	0.00113	1	01/20/2019 14:27	WG1226032
Trichlorofluoromethane	U		0.000564	0.00282	1	01/20/2019 14:27	WG1226032
1,2,3-Trichloropropane	U		0.00575	0.0141	1	01/20/2019 14:27	WG1226032
1,2,4-Trimethylbenzene	U		0.00131	0.00564	1	01/20/2019 14:27	WG1226032
1,2,3-Trimethylbenzene	U		0.00130	0.00564	1	01/20/2019 14:27	WG1226032
1,3,5-Trimethylbenzene	U		0.00122	0.00564	1	01/20/2019 14:27	WG1226032
Vinyl acetate	U	JO	0.00397	0.0141	1	01/20/2019 14:27	WG1226032
Vinyl chloride	U	JO	0.000770	0.00282	1	01/20/2019 14:27	WG1226032
Xylenes, Total	U		0.00539	0.00733	1	01/20/2019 14:27	WG1226032
(S) Toluene-d8	106			75.0-131		01/20/2019 14:27	WG1226032
(S) Dibromofluoromethane	95.9			65.0-129		01/20/2019 14:27	WG1226032
(S) 4-Bromofluorobenzene	97.1			67.0-138		01/20/2019 14:27	WG1226032

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	88.9		1	01/18/2019 10:31	WG1225034

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0274	J	0.0154	0.0281	1	01/20/2019 14:47	WG1226032
Acrylonitrile	U		0.00214	0.0141	1	01/20/2019 14:47	WG1226032
Benzene	U		0.000450	0.00112	1	01/20/2019 14:47	WG1226032
Bromobenzene	U		0.00118	0.0141	1	01/20/2019 14:47	WG1226032
Bromodichloromethane	U		0.000886	0.00281	1	01/20/2019 14:47	WG1226032
Bromochloromethane	U		0.00127	0.00562	1	01/20/2019 14:47	WG1226032
Bromoform	U		0.00673	0.0281	1	01/20/2019 14:47	WG1226032
Bromomethane	U		0.00416	0.0141	1	01/20/2019 14:47	WG1226032
n-Butylbenzene	U		0.00432	0.0141	1	01/20/2019 14:47	WG1226032
sec-Butylbenzene	U		0.00285	0.0141	1	01/20/2019 14:47	WG1226032
tert-Butylbenzene	U		0.00174	0.00562	1	01/20/2019 14:47	WG1226032
Carbon disulfide	U		0.00457	0.0141	1	01/20/2019 14:47	WG1226032
Carbon tetrachloride	U		0.00121	0.00562	1	01/20/2019 14:47	WG1226032
Chlorobenzene	U		0.000645	0.00281	1	01/20/2019 14:47	WG1226032
Chlorodibromomethane	U		0.000506	0.00281	1	01/20/2019 14:47	WG1226032
Chloroethane	U		0.00121	0.00562	1	01/20/2019 14:47	WG1226032
Chloroform	0.000594	J	0.000467	0.00281	1	01/20/2019 14:47	WG1226032
Chloromethane	U		0.00156	0.0141	1	01/20/2019 14:47	WG1226032
2-Chlorotoluene	U		0.00103	0.00281	1	01/20/2019 14:47	WG1226032
4-Chlorotoluene	U		0.00127	0.00562	1	01/20/2019 14:47	WG1226032
1,2-Dibromo-3-Chloropropane	U		0.00574	0.0281	1	01/20/2019 14:47	WG1226032
1,2-Dibromoethane	U		0.000591	0.00281	1	01/20/2019 14:47	WG1226032
Dibromomethane	U		0.00112	0.00562	1	01/20/2019 14:47	WG1226032
1,2-Dichlorobenzene	U		0.00163	0.00562	1	01/20/2019 14:47	WG1226032
1,3-Dichlorobenzene	U		0.00191	0.00562	1	01/20/2019 14:47	WG1226032
1,4-Dichlorobenzene	U		0.00222	0.00562	1	01/20/2019 14:47	WG1226032
Dichlorodifluoromethane	U	JO	0.000920	0.00281	1	01/20/2019 14:47	WG1226032
1,1-Dichloroethane	U		0.000647	0.00281	1	01/20/2019 14:47	WG1226032
1,2-Dichloroethane	U		0.000534	0.00281	1	01/20/2019 14:47	WG1226032
1,1-Dichloroethene	U		0.000562	0.00281	1	01/20/2019 14:47	WG1226032
cis-1,2-Dichloroethene	0.130		0.000776	0.00281	1	01/20/2019 14:47	WG1226032
trans-1,2-Dichloroethene	0.00216	J	0.00161	0.00562	1	01/20/2019 14:47	WG1226032
1,2-Dichloropropane	U		0.00143	0.00562	1	01/20/2019 14:47	WG1226032
1,1-Dichloropropene	U		0.000787	0.00281	1	01/20/2019 14:47	WG1226032
1,3-Dichloropropane	U		0.00197	0.00562	1	01/20/2019 14:47	WG1226032
cis-1,3-Dichloropropene	U		0.000763	0.00281	1	01/20/2019 14:47	WG1226032
trans-1,3-Dichloropropene	U		0.00172	0.00562	1	01/20/2019 14:47	WG1226032
trans-1,4-Dichloro-2-butene	U		0.00157	0.00562	1	01/20/2019 14:47	WG1226032
2,2-Dichloropropane	U		0.000892	0.00281	1	01/20/2019 14:47	WG1226032
Di-isopropyl ether	U		0.000394	0.00112	1	01/20/2019 14:47	WG1226032
Ethylbenzene	U		0.000596	0.00281	1	01/20/2019 14:47	WG1226032
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	01/20/2019 14:47	WG1226032
2-Hexanone	U		0.0112	0.0281	1	01/20/2019 14:47	WG1226032
n-Hexane	0.00200	J	0.00119	0.00562	1	01/20/2019 14:47	WG1226032
Iodomethane	U		0.00681	0.0141	1	01/20/2019 14:47	WG1226032
Isopropylbenzene	U		0.000971	0.00281	1	01/20/2019 14:47	WG1226032
p-Isopropyltoluene	U		0.00262	0.00562	1	01/20/2019 14:47	WG1226032
2-Butanone (MEK)	U		0.0141	0.0281	1	01/20/2019 14:47	WG1226032
Methylene Chloride	U		0.00747	0.0281	1	01/20/2019 14:47	WG1226032
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	01/20/2019 14:47	WG1226032

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		0.000332	0.00112	1	01/20/2019 14:47	WG1226032
Naphthalene	U	JO	0.00351	0.0141	1	01/20/2019 14:47	WG1226032
n-Propylbenzene	U		0.00133	0.00562	1	01/20/2019 14:47	WG1226032
Styrene	U		0.00307	0.0141	1	01/20/2019 14:47	WG1226032
1,1,1,2-Tetrachloroethane	U		0.000562	0.00281	1	01/20/2019 14:47	WG1226032
1,1,2,2-Tetrachloroethane	U		0.000439	0.00281	1	01/20/2019 14:47	WG1226032
1,1,2-Trichlorotrifluoroethane	U	JO	0.000759	0.00281	1	01/20/2019 14:47	WG1226032
Tetrachloroethene	1.43		0.000787	0.00281	1	01/20/2019 14:47	WG1226032
Toluene	U		0.00141	0.00562	1	01/20/2019 14:47	WG1226032
1,2,3-Trichlorobenzene	U	JO J4	0.000703	0.00281	1	01/20/2019 14:47	WG1226032
1,2,4-Trichlorobenzene	U	JO	0.00542	0.0141	1	01/20/2019 14:47	WG1226032
1,1,1-Trichloroethane	U		0.000309	0.00281	1	01/20/2019 14:47	WG1226032
1,1,2-Trichloroethane	U		0.000993	0.00281	1	01/20/2019 14:47	WG1226032
Trichloroethene	0.332		0.000450	0.00112	1	01/20/2019 14:47	WG1226032
Trichlorofluoromethane	U		0.000562	0.00281	1	01/20/2019 14:47	WG1226032
1,2,3-Trichloropropane	U		0.00574	0.0141	1	01/20/2019 14:47	WG1226032
1,2,4-Trimethylbenzene	U		0.00130	0.00562	1	01/20/2019 14:47	WG1226032
1,2,3-Trimethylbenzene	U		0.00129	0.00562	1	01/20/2019 14:47	WG1226032
1,3,5-Trimethylbenzene	U		0.00121	0.00562	1	01/20/2019 14:47	WG1226032
Vinyl acetate	U	JO	0.00396	0.0141	1	01/20/2019 14:47	WG1226032
Vinyl chloride	U	JO	0.000768	0.00281	1	01/20/2019 14:47	WG1226032
Xylenes, Total	U		0.00538	0.00731	1	01/20/2019 14:47	WG1226032
(S) Toluene-d8	108			75.0-131		01/20/2019 14:47	WG1226032
(S) Dibromofluoromethane	96.0			65.0-129		01/20/2019 14:47	WG1226032
(S) 4-Bromofluorobenzene	89.8			67.0-138		01/20/2019 14:47	WG1226032

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	91.5		1	01/18/2019 10:31	WG1225034

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0426		0.0182	0.0333	1.22	01/20/2019 15:07	WG1226032
Acrylonitrile	U		0.00254	0.0167	1.22	01/20/2019 15:07	WG1226032
Benzene	U		0.000533	0.00133	1.22	01/20/2019 15:07	WG1226032
Bromobenzene	U		0.00140	0.0167	1.22	01/20/2019 15:07	WG1226032
Bromodichloromethane	U		0.00105	0.00333	1.22	01/20/2019 15:07	WG1226032
Bromochloromethane	U		0.00151	0.00667	1.22	01/20/2019 15:07	WG1226032
Bromoform	U		0.00798	0.0333	1.22	01/20/2019 15:07	WG1226032
Bromomethane	U		0.00493	0.0167	1.22	01/20/2019 15:07	WG1226032
n-Butylbenzene	U		0.00511	0.0167	1.22	01/20/2019 15:07	WG1226032
sec-Butylbenzene	U		0.00338	0.0167	1.22	01/20/2019 15:07	WG1226032
tert-Butylbenzene	U		0.00207	0.00667	1.22	01/20/2019 15:07	WG1226032
Carbon disulfide	U		0.00541	0.0167	1.22	01/20/2019 15:07	WG1226032
Carbon tetrachloride	U		0.00144	0.00667	1.22	01/20/2019 15:07	WG1226032
Chlorobenzene	U		0.000764	0.00333	1.22	01/20/2019 15:07	WG1226032
Chlorodibromomethane	U		0.000600	0.00333	1.22	01/20/2019 15:07	WG1226032
Chloroethane	U		0.00144	0.00667	1.22	01/20/2019 15:07	WG1226032
Chloroform	0.000766	J	0.000553	0.00333	1.22	01/20/2019 15:07	WG1226032
Chloromethane	U		0.00186	0.0167	1.22	01/20/2019 15:07	WG1226032
2-Chlorotoluene	U		0.00122	0.00333	1.22	01/20/2019 15:07	WG1226032
4-Chlorotoluene	U		0.00151	0.00667	1.22	01/20/2019 15:07	WG1226032
1,2-Dibromo-3-Chloropropane	U		0.00680	0.0333	1.22	01/20/2019 15:07	WG1226032
1,2-Dibromoethane	U		0.000699	0.00333	1.22	01/20/2019 15:07	WG1226032
Dibromomethane	U		0.00133	0.00667	1.22	01/20/2019 15:07	WG1226032
1,2-Dichlorobenzene	U		0.00193	0.00667	1.22	01/20/2019 15:07	WG1226032
1,3-Dichlorobenzene	U		0.00226	0.00667	1.22	01/20/2019 15:07	WG1226032
1,4-Dichlorobenzene	U		0.00262	0.00667	1.22	01/20/2019 15:07	WG1226032
Dichlorodifluoromethane	U	JO	0.00109	0.00333	1.22	01/20/2019 15:07	WG1226032
1,1-Dichloroethane	U		0.000767	0.00333	1.22	01/20/2019 15:07	WG1226032
1,2-Dichloroethane	U		0.000634	0.00333	1.22	01/20/2019 15:07	WG1226032
1,1-Dichloroethene	U		0.000667	0.00333	1.22	01/20/2019 15:07	WG1226032
cis-1,2-Dichloroethene	0.0512		0.000920	0.00333	1.22	01/20/2019 15:07	WG1226032
trans-1,2-Dichloroethene	U		0.00190	0.00667	1.22	01/20/2019 15:07	WG1226032
1,2-Dichloropropane	U		0.00169	0.00667	1.22	01/20/2019 15:07	WG1226032
1,1-Dichloropropene	U		0.000933	0.00333	1.22	01/20/2019 15:07	WG1226032
1,3-Dichloropropane	U		0.00234	0.00667	1.22	01/20/2019 15:07	WG1226032
cis-1,3-Dichloropropene	U		0.000904	0.00333	1.22	01/20/2019 15:07	WG1226032
trans-1,3-Dichloropropene	U		0.00204	0.00667	1.22	01/20/2019 15:07	WG1226032
trans-1,4-Dichloro-2-butene	U		0.00187	0.00667	1.22	01/20/2019 15:07	WG1226032
2,2-Dichloropropane	U		0.00106	0.00333	1.22	01/20/2019 15:07	WG1226032
Di-isopropyl ether	U		0.000467	0.00133	1.22	01/20/2019 15:07	WG1226032
Ethylbenzene	U		0.000707	0.00333	1.22	01/20/2019 15:07	WG1226032
Hexachloro-1,3-butadiene	U		0.0169	0.0333	1.22	01/20/2019 15:07	WG1226032
2-Hexanone	U		0.0133	0.0333	1.22	01/20/2019 15:07	WG1226032
n-Hexane	0.00495	J	0.00141	0.00667	1.22	01/20/2019 15:07	WG1226032
Iodomethane	U		0.00806	0.0167	1.22	01/20/2019 15:07	WG1226032
Isopropylbenzene	U		0.00115	0.00333	1.22	01/20/2019 15:07	WG1226032
p-Isopropyltoluene	U		0.00310	0.00667	1.22	01/20/2019 15:07	WG1226032
2-Butanone (MEK)	U		0.0166	0.0333	1.22	01/20/2019 15:07	WG1226032
Methylene Chloride	U		0.00885	0.0333	1.22	01/20/2019 15:07	WG1226032
4-Methyl-2-pentanone (MIBK)	U		0.0133	0.0333	1.22	01/20/2019 15:07	WG1226032

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		0.000393	0.00133	1.22	01/20/2019 15:07	WG1226032
Naphthalene	U	<u>JO</u>	0.00416	0.0167	1.22	01/20/2019 15:07	WG1226032
n-Propylbenzene	U		0.00157	0.00667	1.22	01/20/2019 15:07	WG1226032
Styrene	U		0.00364	0.0167	1.22	01/20/2019 15:07	WG1226032
1,1,1,2-Tetrachloroethane	U		0.000667	0.00333	1.22	01/20/2019 15:07	WG1226032
1,1,2,2-Tetrachloroethane	U		0.000520	0.00333	1.22	01/20/2019 15:07	WG1226032
1,1,2-Trichlorotrifluoroethane	U	<u>JO</u>	0.000900	0.00333	1.22	01/20/2019 15:07	WG1226032
Tetrachloroethene	0.0119		0.000933	0.00333	1.22	01/20/2019 15:07	WG1226032
Toluene	0.00238	<u>J</u>	0.00166	0.00667	1.22	01/20/2019 15:07	WG1226032
1,2,3-Trichlorobenzene	U	<u>JO J4</u>	0.000833	0.00333	1.22	01/20/2019 15:07	WG1226032
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.00643	0.0167	1.22	01/20/2019 15:07	WG1226032
1,1,1-Trichloroethane	U		0.000367	0.00333	1.22	01/20/2019 15:07	WG1226032
1,1,2-Trichloroethane	U		0.00118	0.00333	1.22	01/20/2019 15:07	WG1226032
Trichloroethene	0.00177		0.000533	0.00133	1.22	01/20/2019 15:07	WG1226032
Trichlorofluoromethane	U		0.000667	0.00333	1.22	01/20/2019 15:07	WG1226032
1,2,3-Trichloropropane	U		0.00680	0.0167	1.22	01/20/2019 15:07	WG1226032
1,2,4-Trimethylbenzene	0.00192	<u>J</u>	0.00155	0.00667	1.22	01/20/2019 15:07	WG1226032
1,2,3-Trimethylbenzene	U		0.00153	0.00667	1.22	01/20/2019 15:07	WG1226032
1,3,5-Trimethylbenzene	U		0.00144	0.00667	1.22	01/20/2019 15:07	WG1226032
Vinyl acetate	U	<u>JO</u>	0.00469	0.0167	1.22	01/20/2019 15:07	WG1226032
Vinyl chloride	U	<u>JO</u>	0.000910	0.00333	1.22	01/20/2019 15:07	WG1226032
Xylenes, Total	U		0.00637	0.00867	1.22	01/20/2019 15:07	WG1226032
(S) Toluene-d8	107			75.0-131		01/20/2019 15:07	WG1226032
(S) Dibromofluoromethane	97.2			65.0-129		01/20/2019 15:07	WG1226032
(S) 4-Bromofluorobenzene	86.2			67.0-138		01/20/2019 15:07	WG1226032

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Collected date/time: 01/15/19 11:20

L1061673

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.2		1	01/17/2019 13:00	WG1224621

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0154	0.0280	1	01/17/2019 20:57	WG1224822
Acrylonitrile	U		0.00213	0.0140	1	01/17/2019 20:57	WG1224822
Benzene	U		0.000449	0.00112	1	01/17/2019 20:57	WG1224822
Bromobenzene	U		0.00118	0.0140	1	01/17/2019 20:57	WG1224822
Bromodichloromethane	U		0.000884	0.00280	1	01/17/2019 20:57	WG1224822
Bromochloromethane	U		0.00127	0.00561	1	01/17/2019 20:57	WG1224822
Bromoform	U	JO	0.00671	0.0280	1	01/17/2019 20:57	WG1224822
Bromomethane	U		0.00415	0.0140	1	01/17/2019 20:57	WG1224822
n-Butylbenzene	U		0.00431	0.0140	1	01/17/2019 20:57	WG1224822
sec-Butylbenzene	U		0.00284	0.0140	1	01/17/2019 20:57	WG1224822
tert-Butylbenzene	U		0.00174	0.00561	1	01/17/2019 20:57	WG1224822
Carbon disulfide	U		0.00455	0.0140	1	01/17/2019 20:57	WG1224822
Carbon tetrachloride	U		0.00121	0.00561	1	01/17/2019 20:57	WG1224822
Chlorobenzene	U		0.000642	0.00280	1	01/17/2019 20:57	WG1224822
Chlorodibromomethane	U		0.000505	0.00280	1	01/17/2019 20:57	WG1224822
Chloroethane	U		0.00121	0.00561	1	01/17/2019 20:57	WG1224822
Chloroform	U		0.000465	0.00280	1	01/17/2019 20:57	WG1224822
Chloromethane	U		0.00156	0.0140	1	01/17/2019 20:57	WG1224822
2-Chlorotoluene	U		0.00103	0.00280	1	01/17/2019 20:57	WG1224822
4-Chlorotoluene	U		0.00127	0.00561	1	01/17/2019 20:57	WG1224822
1,2-Dibromo-3-Chloropropane	U		0.00572	0.0280	1	01/18/2019 12:22	WG1225374
1,2-Dibromoethane	U		0.000589	0.00280	1	01/17/2019 20:57	WG1224822
Dibromomethane	U		0.00112	0.00561	1	01/17/2019 20:57	WG1224822
1,2-Dichlorobenzene	U		0.00163	0.00561	1	01/17/2019 20:57	WG1224822
1,3-Dichlorobenzene	U		0.00191	0.00561	1	01/17/2019 20:57	WG1224822
1,4-Dichlorobenzene	U		0.00221	0.00561	1	01/17/2019 20:57	WG1224822
Dichlorodifluoromethane	U	JO	0.000917	0.00280	1	01/18/2019 12:22	WG1225374
1,1-Dichloroethane	U		0.000645	0.00280	1	01/17/2019 20:57	WG1224822
1,2-Dichloroethane	U		0.000533	0.00280	1	01/17/2019 20:57	WG1224822
1,1-Dichloroethene	0.000708	J	0.000561	0.00280	1	01/18/2019 12:22	WG1225374
cis-1,2-Dichloroethene	0.263		0.000774	0.00280	1	01/18/2019 12:22	WG1225374
trans-1,2-Dichloroethene	U		0.00160	0.00561	1	01/17/2019 20:57	WG1224822
1,2-Dichloropropane	U		0.00142	0.00561	1	01/17/2019 20:57	WG1224822
1,1-Dichloropropene	U		0.000785	0.00280	1	01/17/2019 20:57	WG1224822
1,3-Dichloropropane	U		0.00196	0.00561	1	01/17/2019 20:57	WG1224822
cis-1,3-Dichloropropene	U		0.000760	0.00280	1	01/17/2019 20:57	WG1224822
trans-1,3-Dichloropropene	U		0.00172	0.00561	1	01/17/2019 20:57	WG1224822
trans-1,4-Dichloro-2-butene	U		0.00157	0.00561	1	01/18/2019 12:22	WG1225374
2,2-Dichloropropane	U		0.000889	0.00280	1	01/17/2019 20:57	WG1224822
Di-isopropyl ether	U		0.000392	0.00112	1	01/18/2019 12:22	WG1225374
Ethylbenzene	U		0.000594	0.00280	1	01/17/2019 20:57	WG1224822
Hexachloro-1,3-butadiene	U	JO	0.0142	0.0280	1	01/17/2019 20:57	WG1224822
2-Hexanone	U		0.0112	0.0280	1	01/17/2019 20:57	WG1224822
n-Hexane	0.00769		0.00119	0.00561	1	01/17/2019 20:57	WG1224822
Iodomethane	U		0.00678	0.0140	1	01/17/2019 20:57	WG1224822
Isopropylbenzene	U		0.000968	0.00280	1	01/17/2019 20:57	WG1224822
p-Isopropyltoluene	U		0.00261	0.00561	1	01/17/2019 20:57	WG1224822
2-Butanone (MEK)	U		0.0140	0.0280	1	01/17/2019 20:57	WG1224822
Methylene Chloride	U		0.00745	0.0280	1	01/17/2019 20:57	WG1224822
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0280	1	01/17/2019 20:57	WG1224822

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

S1-8843-011519

SAMPLE RESULTS - 11

ONE LAB. NATIONWIDE.



Collected date/time: 01/15/19 11:20

L1061673

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000331	0.00112	1	01/17/2019 20:57	WG1224822
Naphthalene	U	<u>JO</u>	0.00350	0.0140	1	01/18/2019 12:22	WG1225374
n-Propylbenzene	U		0.00132	0.00561	1	01/17/2019 20:57	WG1224822
Styrene	U		0.00306	0.0140	1	01/17/2019 20:57	WG1224822
1,1,1,2-Tetrachloroethane	U		0.000561	0.00280	1	01/17/2019 20:57	WG1224822
1,1,2,2-Tetrachloroethane	U		0.000437	0.00280	1	01/18/2019 12:22	WG1225374
1,1,2-Trichlorotrifluoroethane	U		0.000757	0.00280	1	01/17/2019 20:57	WG1224822
Tetrachloroethene	0.517		0.000785	0.00280	1	01/17/2019 20:57	WG1224822
Toluene	0.00183	<u>J</u>	0.00140	0.00561	1	01/17/2019 20:57	WG1224822
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.000701	0.00280	1	01/18/2019 12:22	WG1225374
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.00540	0.0140	1	01/17/2019 20:57	WG1224822
1,1,1-Trichloroethane	U		0.000308	0.00280	1	01/17/2019 20:57	WG1224822
1,1,2-Trichloroethane	U		0.000990	0.00280	1	01/17/2019 20:57	WG1224822
Trichloroethene	0.116		0.000449	0.00112	1	01/17/2019 20:57	WG1224822
Trichlorofluoromethane	U		0.000561	0.00280	1	01/17/2019 20:57	WG1224822
1,2,3-Trichloropropane	U		0.00572	0.0140	1	01/17/2019 20:57	WG1224822
1,2,4-Trimethylbenzene	U		0.00130	0.00561	1	01/17/2019 20:57	WG1224822
1,2,3-Trimethylbenzene	U	<u>JO J4</u>	0.00129	0.00561	1	01/17/2019 20:57	WG1224822
1,3,5-Trimethylbenzene	U		0.00121	0.00561	1	01/17/2019 20:57	WG1224822
Vinyl acetate	U		0.00395	0.0140	1	01/17/2019 20:57	WG1224822
Vinyl chloride	0.00904		0.000766	0.00280	1	01/17/2019 20:57	WG1224822
Xylenes, Total	U		0.00536	0.00729	1	01/17/2019 20:57	WG1224822
(S) Toluene-d8	108			75.0-131		01/17/2019 20:57	WG1224822
(S) Toluene-d8	105			75.0-131		01/18/2019 12:22	WG1225374
(S) Dibromofluoromethane	85.1			65.0-129		01/17/2019 20:57	WG1224822
(S) Dibromofluoromethane	94.7			65.0-129		01/18/2019 12:22	WG1225374
(S) 4-Bromofluorobenzene	102			67.0-138		01/17/2019 20:57	WG1224822
(S) 4-Bromofluorobenzene	103			67.0-138		01/18/2019 12:22	WG1225374

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

1413.001.05.501

SDG:

L1061673

DATE/TIME:

01/23/19 11:15

PAGE:

27 of 61



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.5		1	01/17/2019 13:00	WG1224621

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0157	0.0286	1	01/17/2019 21:20	WG1224822
Acrylonitrile	U		0.00217	0.0143	1	01/17/2019 21:20	WG1224822
Benzene	U		0.000457	0.00114	1	01/17/2019 21:20	WG1224822
Bromobenzene	U		0.00120	0.0143	1	01/17/2019 21:20	WG1224822
Bromodichloromethane	U		0.000901	0.00286	1	01/17/2019 21:20	WG1224822
Bromochloromethane	U		0.00129	0.00571	1	01/17/2019 21:20	WG1224822
Bromoform	U	JO	0.00683	0.0286	1	01/17/2019 21:20	WG1224822
Bromomethane	U		0.00423	0.0143	1	01/17/2019 21:20	WG1224822
n-Butylbenzene	U		0.00439	0.0143	1	01/17/2019 21:20	WG1224822
sec-Butylbenzene	U		0.00289	0.0143	1	01/17/2019 21:20	WG1224822
tert-Butylbenzene	U		0.00177	0.00571	1	01/17/2019 21:20	WG1224822
Carbon disulfide	U		0.00464	0.0143	1	01/17/2019 21:20	WG1224822
Carbon tetrachloride	U		0.00123	0.00571	1	01/17/2019 21:20	WG1224822
Chlorobenzene	U		0.000655	0.00286	1	01/17/2019 21:20	WG1224822
Chlorodibromomethane	U		0.000514	0.00286	1	01/17/2019 21:20	WG1224822
Chloroethane	U		0.00123	0.00571	1	01/17/2019 21:20	WG1224822
Chloroform	U		0.000474	0.00286	1	01/17/2019 21:20	WG1224822
Chloromethane	U		0.00159	0.0143	1	01/17/2019 21:20	WG1224822
2-Chlorotoluene	U		0.00105	0.00286	1	01/17/2019 21:20	WG1224822
4-Chlorotoluene	U		0.00129	0.00571	1	01/17/2019 21:20	WG1224822
1,2-Dibromo-3-Chloropropane	U		0.00583	0.0286	1	01/18/2019 12:42	WG1225374
1,2-Dibromoethane	U		0.000600	0.00286	1	01/17/2019 21:20	WG1224822
Dibromomethane	U		0.00114	0.00571	1	01/17/2019 21:20	WG1224822
1,2-Dichlorobenzene	U		0.00166	0.00571	1	01/17/2019 21:20	WG1224822
1,3-Dichlorobenzene	U		0.00194	0.00571	1	01/17/2019 21:20	WG1224822
1,4-Dichlorobenzene	U		0.00225	0.00571	1	01/17/2019 21:20	WG1224822
Dichlorodifluoromethane	U	JO	0.000935	0.00286	1	01/18/2019 12:42	WG1225374
1,1-Dichloroethane	U		0.000657	0.00286	1	01/17/2019 21:20	WG1224822
1,2-Dichloroethane	U		0.000543	0.00286	1	01/17/2019 21:20	WG1224822
1,1-Dichloroethene	0.000897	J	0.000571	0.00286	1	01/18/2019 12:42	WG1225374
cis-1,2-Dichloroethene	0.282		0.000789	0.00286	1	01/18/2019 12:42	WG1225374
trans-1,2-Dichloroethene	0.00167	J	0.00163	0.00571	1	01/17/2019 21:20	WG1224822
1,2-Dichloropropane	U		0.00145	0.00571	1	01/17/2019 21:20	WG1224822
1,1-Dichloropropene	U		0.000800	0.00286	1	01/17/2019 21:20	WG1224822
1,3-Dichloropropane	U		0.00200	0.00571	1	01/17/2019 21:20	WG1224822
cis-1,3-Dichloropropene	U		0.000775	0.00286	1	01/17/2019 21:20	WG1224822
trans-1,3-Dichloropropene	U		0.00175	0.00571	1	01/17/2019 21:20	WG1224822
trans-1,4-Dichloro-2-butene	U		0.00160	0.00571	1	01/18/2019 12:42	WG1225374
2,2-Dichloropropane	U		0.000906	0.00286	1	01/17/2019 21:20	WG1224822
Di-isopropyl ether	U		0.000400	0.00114	1	01/18/2019 12:42	WG1225374
Ethylbenzene	U		0.000606	0.00286	1	01/17/2019 21:20	WG1224822
Hexachloro-1,3-butadiene	U	JO	0.0145	0.0286	1	01/17/2019 21:20	WG1224822
2-Hexanone	U		0.0114	0.0286	1	01/17/2019 21:20	WG1224822
n-Hexane	U		0.00121	0.00571	1	01/17/2019 21:20	WG1224822
Iodomethane	U		0.00691	0.0143	1	01/17/2019 21:20	WG1224822
Isopropylbenzene	U		0.000986	0.00286	1	01/17/2019 21:20	WG1224822
p-Isopropyltoluene	U		0.00266	0.00571	1	01/17/2019 21:20	WG1224822
2-Butanone (MEK)	U		0.0143	0.0286	1	01/17/2019 21:20	WG1224822
Methylene Chloride	U		0.00759	0.0286	1	01/17/2019 21:20	WG1224822
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0286	1	01/17/2019 21:20	WG1224822

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		0.000337	0.00114	1	01/17/2019 21:20	WG1224822
Naphthalene	U	<u>JO</u>	0.00357	0.0143	1	01/18/2019 12:42	WG1225374
n-Propylbenzene	U		0.00135	0.00571	1	01/17/2019 21:20	WG1224822
Styrene	U		0.00312	0.0143	1	01/17/2019 21:20	WG1224822
1,1,1,2-Tetrachloroethane	U		0.000571	0.00286	1	01/17/2019 21:20	WG1224822
1,1,2,2-Tetrachloroethane	U		0.000446	0.00286	1	01/18/2019 12:42	WG1225374
1,1,2-Trichlorotrifluoroethane	U		0.000771	0.00286	1	01/17/2019 21:20	WG1224822
Tetrachloroethene	0.515		0.000800	0.00286	1	01/17/2019 21:20	WG1224822
Toluene	0.00162	<u>J</u>	0.00143	0.00571	1	01/17/2019 21:20	WG1224822
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.000714	0.00286	1	01/18/2019 12:42	WG1225374
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.00551	0.0143	1	01/17/2019 21:20	WG1224822
1,1,1-Trichloroethane	U		0.000314	0.00286	1	01/17/2019 21:20	WG1224822
1,1,2-Trichloroethane	U		0.00101	0.00286	1	01/17/2019 21:20	WG1224822
Trichloroethene	0.0815		0.000457	0.00114	1	01/17/2019 21:20	WG1224822
Trichlorofluoromethane	U		0.000571	0.00286	1	01/17/2019 21:20	WG1224822
1,2,3-Trichloropropane	U		0.00583	0.0143	1	01/17/2019 21:20	WG1224822
1,2,4-Trimethylbenzene	U		0.00133	0.00571	1	01/17/2019 21:20	WG1224822
1,2,3-Trimethylbenzene	U	<u>JO J4</u>	0.00131	0.00571	1	01/17/2019 21:20	WG1224822
1,3,5-Trimethylbenzene	U		0.00123	0.00571	1	01/17/2019 21:20	WG1224822
Vinyl acetate	U		0.00402	0.0143	1	01/17/2019 21:20	WG1224822
Vinyl chloride	0.00844		0.000781	0.00286	1	01/17/2019 21:20	WG1224822
Xylenes, Total	U		0.00546	0.00743	1	01/17/2019 21:20	WG1224822
(S) Toluene-d8	104			75.0-131		01/17/2019 21:20	WG1224822
(S) Toluene-d8	105			75.0-131		01/18/2019 12:42	WG1225374
(S) Dibromofluoromethane	86.1			65.0-129		01/17/2019 21:20	WG1224822
(S) Dibromofluoromethane	95.4			65.0-129		01/18/2019 12:42	WG1225374
(S) 4-Bromofluorobenzene	99.3			67.0-138		01/17/2019 21:20	WG1224822
(S) 4-Bromofluorobenzene	96.2			67.0-138		01/18/2019 12:42	WG1225374

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/15/19 00:00

L1061673

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	8.79	J	1.05	25.0	1	01/17/2019 21:57	WG1225168
Acrylonitrile	4.83	J	0.873	5.00	1	01/17/2019 21:57	WG1225168
Benzene	U		0.0896	0.500	1	01/17/2019 21:57	WG1225168
Bromobenzene	U		0.133	0.500	1	01/17/2019 21:57	WG1225168
Bromodichloromethane	U		0.0800	0.500	1	01/17/2019 21:57	WG1225168
Bromochloromethane	U		0.145	0.500	1	01/17/2019 21:57	WG1225168
Bromoform	U		0.186	0.500	1	01/17/2019 21:57	WG1225168
Bromomethane	U		0.157	2.50	1	01/17/2019 21:57	WG1225168
n-Butylbenzene	U		0.143	0.500	1	01/17/2019 21:57	WG1225168
sec-Butylbenzene	U		0.134	0.500	1	01/17/2019 21:57	WG1225168
tert-Butylbenzene	U		0.183	0.500	1	01/17/2019 21:57	WG1225168
Carbon disulfide	0.139	J	0.101	0.500	1	01/17/2019 21:57	WG1225168
Carbon tetrachloride	U		0.159	0.500	1	01/17/2019 21:57	WG1225168
Chlorobenzene	U		0.140	0.500	1	01/17/2019 21:57	WG1225168
Chlorodibromomethane	U		0.128	0.500	1	01/17/2019 21:57	WG1225168
Chloroethane	U		0.141	2.50	1	01/17/2019 21:57	WG1225168
Chloroform	U		0.0860	0.500	1	01/17/2019 21:57	WG1225168
Chloromethane	U		0.153	1.25	1	01/17/2019 21:57	WG1225168
2-Chlorotoluene	U		0.111	0.500	1	01/17/2019 21:57	WG1225168
4-Chlorotoluene	U		0.0972	0.500	1	01/17/2019 21:57	WG1225168
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/17/2019 21:57	WG1225168
1,2-Dibromoethane	U		0.193	0.500	1	01/17/2019 21:57	WG1225168
Dibromomethane	U		0.117	0.500	1	01/17/2019 21:57	WG1225168
1,2-Dichlorobenzene	U		0.101	0.500	1	01/17/2019 21:57	WG1225168
1,3-Dichlorobenzene	U		0.130	0.500	1	01/17/2019 21:57	WG1225168
1,4-Dichlorobenzene	U		0.121	0.500	1	01/17/2019 21:57	WG1225168
Dichlorodifluoromethane	U		0.127	2.50	1	01/17/2019 21:57	WG1225168
1,1-Dichloroethane	U		0.114	0.500	1	01/17/2019 21:57	WG1225168
1,2-Dichloroethane	U		0.108	0.500	1	01/17/2019 21:57	WG1225168
1,1-Dichloroethene	U		0.188	0.500	1	01/17/2019 21:57	WG1225168
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/17/2019 21:57	WG1225168
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/17/2019 21:57	WG1225168
1,2-Dichloropropane	U		0.190	0.500	1	01/17/2019 21:57	WG1225168
1,1-Dichloropropene	U		0.128	0.500	1	01/17/2019 21:57	WG1225168
1,3-Dichloropropane	U		0.147	1.00	1	01/17/2019 21:57	WG1225168
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/17/2019 21:57	WG1225168
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/17/2019 21:57	WG1225168
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/17/2019 21:57	WG1225168
2,2-Dichloropropane	U		0.0929	0.500	1	01/17/2019 21:57	WG1225168
Di-isopropyl ether	U		0.0924	0.500	1	01/17/2019 21:57	WG1225168
Ethylbenzene	U		0.158	0.500	1	01/17/2019 21:57	WG1225168
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/17/2019 21:57	WG1225168
2-Hexanone	U		0.757	5.00	1	01/17/2019 21:57	WG1225168
n-Hexane	U		0.305	5.00	1	01/17/2019 21:57	WG1225168
Iodomethane	U		0.377	10.0	1	01/17/2019 21:57	WG1225168
Isopropylbenzene	U		0.126	0.500	1	01/17/2019 21:57	WG1225168
p-Isopropyltoluene	U		0.138	0.500	1	01/17/2019 21:57	WG1225168
2-Butanone (MEK)	U		1.28	5.00	1	01/17/2019 21:57	WG1225168
Methylene Chloride	U		1.07	2.50	1	01/17/2019 21:57	WG1225168
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/17/2019 21:57	WG1225168
Methyl tert-butyl ether	U		0.102	0.500	1	01/17/2019 21:57	WG1225168
Naphthalene	U		0.174	2.50	1	01/17/2019 21:57	WG1225168
n-Propylbenzene	U		0.162	0.500	1	01/17/2019 21:57	WG1225168
Styrene	U		0.117	0.500	1	01/17/2019 21:57	WG1225168
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/17/2019 21:57	WG1225168
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/17/2019 21:57	WG1225168

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/15/19 00:00

L1061673

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	01/17/2019 21:57	WG1225168
Tetrachloroethene	U		0.199	0.500	1	01/17/2019 21:57	WG1225168
Toluene	U		0.412	0.500	1	01/17/2019 21:57	WG1225168
1,2,3-Trichlorobenzene	0.169	J	0.164	0.500	1	01/17/2019 21:57	WG1225168
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/17/2019 21:57	WG1225168
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/17/2019 21:57	WG1225168
1,1,2-Trichloroethane	U		0.186	0.500	1	01/17/2019 21:57	WG1225168
Trichloroethene	U		0.153	0.500	1	01/17/2019 21:57	WG1225168
Trichlorofluoromethane	U		0.130	2.50	1	01/17/2019 21:57	WG1225168
1,2,3-Trichloropropane	U		0.247	2.50	1	01/17/2019 21:57	WG1225168
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/17/2019 21:57	WG1225168
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/17/2019 21:57	WG1225168
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/17/2019 21:57	WG1225168
Vinyl acetate	U		0.645	5.00	1	01/17/2019 21:57	WG1225168
Vinyl chloride	U		0.118	0.500	1	01/17/2019 21:57	WG1225168
Xylenes, Total	U		0.316	1.50	1	01/17/2019 21:57	WG1225168
(S) Toluene-d8	105			80.0-120		01/17/2019 21:57	WG1225168
(S) Dibromofluoromethane	101			75.0-120		01/17/2019 21:57	WG1225168
(S) 4-Bromofluorobenzene	97.6			77.0-126		01/17/2019 21:57	WG1225168

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

[L1061673-04,11,12](#)

Method Blank (MB)

(MB) R3376902-1 01/17/19 13:00

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1061519-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1061519-01 01/17/19 13:00 • (DUP) R3376902-3 01/17/19 13:00

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	84.2	83.9	1	0.300		10

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R3376902-2 01/17/19 13:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	99.9	85.0-115	

⁹Sc

Method Blank (MB)

(MB) R3377064-1 01/18/19 10:13

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1061658-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1061658-05 01/18/19 10:13 • (DUP) R3377064-3 01/18/19 10:13

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	94.8	95.8	1	0.977		10

Laboratory Control Sample (LCS)

(LCS) R3377064-2 01/18/19 10:13

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3376655-3 01/17/19 12:48

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	0.0178	U	0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250
n-Hexane	U		0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3376655-3 01/17/19 12:48

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	0.0172	⌵	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	112			75.0-131
(S) Dibromofluoromethane	83.9			65.0-129
(S) 4-Bromofluorobenzene	92.0			67.0-138

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3376655-1 01/17/19 11:19 • (LCSD) R3376655-2 01/17/19 11:41

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	0.625	0.614	0.623	98.3	99.7	10.0-160			1.45	31
Acrylonitrile	0.625	0.542	0.550	86.6	88.0	45.0-153			1.52	22
Benzene	0.125	0.117	0.119	93.9	95.0	70.0-123			1.21	20
Bromobenzene	0.125	0.106	0.114	85.0	91.3	73.0-121			7.13	20
Bromodichloromethane	0.125	0.117	0.122	93.5	98.0	73.0-121			4.69	20
Bromochloromethane	0.125	0.132	0.132	106	105	77.0-128			0.736	20
Bromoform	0.125	0.0967	0.103	77.4	82.5	64.0-132			6.41	20



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

(LCS) R3376655-1 01/17/19 11:19 • (LCSD) R3376655-2 01/17/19 11:41

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 %
Bromomethane	0.125	0.147	0.148	117	119	56.0-147			1.05	20
n-Butylbenzene	0.125	0.111	0.117	88.6	93.3	68.0-135			5.22	20
sec-Butylbenzene	0.125	0.105	0.110	84.4	88.2	74.0-130			4.41	20
tert-Butylbenzene	0.125	0.108	0.116	86.6	92.5	75.0-127			6.52	20
Carbon disulfide	0.125	0.102	0.106	81.9	84.4	56.0-133			3.11	20
Carbon tetrachloride	0.125	0.108	0.105	86.7	84.0	66.0-128			3.14	20
Chlorobenzene	0.125	0.124	0.125	99.5	100	76.0-128			0.494	20
Chlorodibromomethane	0.125	0.106	0.107	84.7	85.2	74.0-127			0.622	20
Chloroethane	0.125	0.129	0.134	103	107	61.0-134			4.00	20
Chloroform	0.125	0.112	0.119	89.5	95.3	72.0-123			6.37	20
Chloromethane	0.125	0.129	0.128	103	102	51.0-138			1.06	20
2-Chlorotoluene	0.125	0.115	0.121	91.7	96.6	75.0-124			5.28	20
4-Chlorotoluene	0.125	0.110	0.114	87.8	91.4	75.0-124			4.01	20
1,2-Dibromoethane	0.125	0.121	0.121	96.6	96.4	74.0-128			0.227	20
Dibromomethane	0.125	0.114	0.115	91.2	92.2	75.0-122			1.09	20
1,2-Dichlorobenzene	0.125	0.127	0.131	101	105	76.0-124			3.53	20
1,3-Dichlorobenzene	0.125	0.122	0.132	97.5	106	76.0-125			8.11	20
1,4-Dichlorobenzene	0.125	0.121	0.126	96.5	101	77.0-121			4.40	20
1,1-Dichloroethane	0.125	0.110	0.115	87.6	91.9	70.0-127			4.74	20
1,2-Dichloroethane	0.125	0.121	0.125	96.4	99.7	65.0-131			3.37	20
trans-1,2-Dichloroethene	0.125	0.113	0.117	90.1	93.8	71.0-125			4.01	20
1,2-Dichloropropane	0.125	0.127	0.127	101	101	74.0-125			0.208	20
1,1-Dichloropropene	0.125	0.109	0.111	86.9	88.8	73.0-125			2.22	20
1,3-Dichloropropane	0.125	0.125	0.127	100	101	80.0-125			1.20	20
cis-1,3-Dichloropropene	0.125	0.118	0.121	94.8	96.8	76.0-127			2.13	20
trans-1,3-Dichloropropene	0.125	0.116	0.115	92.8	92.2	73.0-127			0.636	20
2,2-Dichloropropane	0.125	0.124	0.124	98.8	99.0	59.0-135			0.199	20
Ethylbenzene	0.125	0.123	0.124	98.1	99.5	74.0-126			1.44	20
Hexachloro-1,3-butadiene	0.125	0.0919	0.0979	73.5	78.3	57.0-150			6.30	20
2-Hexanone	0.625	0.520	0.513	83.3	82.0	54.0-147			1.48	20
n-Hexane	0.125	0.126	0.128	101	102	55.0-137			1.16	20
Iodomethane	0.625	0.595	0.603	95.2	96.5	74.0-134			1.37	20
Isopropylbenzene	0.125	0.110	0.117	87.7	93.3	72.0-127			6.27	20
p-Isopropyltoluene	0.125	0.111	0.118	88.9	94.1	72.0-133			5.67	20
2-Butanone (MEK)	0.625	0.565	0.568	90.3	90.9	30.0-160			0.609	24
Methylene Chloride	0.125	0.116	0.119	92.5	95.6	68.0-123			3.28	20
4-Methyl-2-pentanone (MIBK)	0.625	0.563	0.552	90.1	88.4	56.0-143			1.91	20
Methyl tert-butyl ether	0.125	0.111	0.112	89.0	89.3	66.0-132			0.379	20
n-Propylbenzene	0.125	0.113	0.120	90.1	95.8	74.0-126			6.08	20
Styrene	0.125	0.114	0.122	91.5	97.5	72.0-127			6.35	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



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

(LCS) R3376655-1 01/17/19 11:19 • (LCSD) R3376655-2 01/17/19 11:41

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 %
1,1,1,2-Tetrachloroethane	0.125	0.119	0.121	94.9	96.9	74.0-129			2.12	20
Tetrachloroethene	0.125	0.137	0.140	109	112	70.0-136			2.09	20
Toluene	0.125	0.128	0.129	102	103	75.0-121			0.881	20
1,1,2-Trichlorotrifluoroethane	0.125	0.114	0.115	91.5	91.9	61.0-139			0.392	20
1,2,4-Trichlorobenzene	0.125	0.0947	0.0962	75.7	76.9	62.0-137			1.55	20
1,1,1-Trichloroethane	0.125	0.113	0.115	90.4	91.6	69.0-126			1.38	20
1,1,2-Trichloroethane	0.125	0.129	0.126	103	101	78.0-123			1.99	20
Trichloroethene	0.125	0.116	0.123	93.2	98.3	76.0-126			5.38	20
Trichlorofluoromethane	0.125	0.123	0.127	98.0	102	61.0-142			3.83	20
1,2,3-Trichloropropane	0.125	0.108	0.114	86.5	90.9	67.0-129			4.93	20
1,2,3-Trimethylbenzene	0.125	0.0855	0.0906	68.4	72.5	74.0-124	J4	J4	5.74	20
1,2,4-Trimethylbenzene	0.125	0.108	0.114	86.2	90.8	70.0-126			5.21	20
1,3,5-Trimethylbenzene	0.125	0.111	0.116	89.1	92.4	73.0-127			3.67	20
Vinyl acetate	0.625	0.967	0.973	155	156	43.0-159			0.640	20
Vinyl chloride	0.125	0.132	0.134	105	107	63.0-134			1.95	20
Xylenes, Total	0.375	0.368	0.368	98.1	98.1	72.0-127			0.000	20
(S) Toluene-d8				103	103	75.0-131				
(S) Dibromofluoromethane				90.0	89.1	65.0-129				
(S) 4-Bromofluorobenzene				83.0	88.0	67.0-138				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3376965-2 01/18/19 09:40

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Naphthalene	U		0.00312	0.0125
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
(S) Toluene-d8	107			75.0-131
(S) Dibromofluoromethane	95.3			65.0-129
(S) 4-Bromofluorobenzene	92.2			67.0-138

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R3376965-1 01/18/19 08:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2-Dibromo-3-Chloropropane	0.125	0.132	106	59.0-130	
trans-1,4-Dichloro-2-butene	0.125	0.135	108	45.0-143	
Dichlorodifluoromethane	0.125	0.102	81.6	43.0-156	
1,1-Dichloroethene	0.125	0.122	97.9	65.0-131	
cis-1,2-Dichloroethene	0.125	0.128	103	73.0-125	
Di-isopropyl ether	0.125	0.143	114	60.0-136	
Naphthalene	0.125	0.0954	76.3	59.0-130	
1,1,2,2-Tetrachloroethane	0.125	0.152	122	68.0-128	
1,2,3-Trichlorobenzene	0.125	0.0819	65.5	59.0-139	
(S) Toluene-d8			99.2	75.0-131	
(S) Dibromofluoromethane			101	65.0-129	
(S) 4-Bromofluorobenzene			110	67.0-138	

Method Blank (MB)

(MB) R3377426-2 01/20/19 01:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250
n-Hexane	U		0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125

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Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc



Method Blank (MB)

(MB) R3377426-2 01/20/19 01:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	0.00929	J	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	108			75.0-131
(S) Dibromofluoromethane	84.0			65.0-129
(S) 4-Bromofluorobenzene	95.7			67.0-138

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3377426-1 01/20/19 00:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.659	105	10.0-160	
Acrylonitrile	0.625	0.566	90.6	45.0-153	
Benzene	0.125	0.111	88.5	70.0-123	
Bromobenzene	0.125	0.102	81.8	73.0-121	
Bromodichloromethane	0.125	0.112	89.4	73.0-121	

Laboratory Control Sample (LCS)

(LCS) R3377426-1 01/20/19 00:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromochloromethane	0.125	0.125	99.9	77.0-128	
Bromoform	0.125	0.0959	76.7	64.0-132	
Bromomethane	0.125	0.140	112	56.0-147	
n-Butylbenzene	0.125	0.0963	77.1	68.0-135	
sec-Butylbenzene	0.125	0.0941	75.3	74.0-130	
tert-Butylbenzene	0.125	0.0991	79.2	75.0-127	
Carbon disulfide	0.125	0.100	80.0	56.0-133	
Carbon tetrachloride	0.125	0.102	81.7	66.0-128	
Chlorobenzene	0.125	0.117	93.9	76.0-128	
Chlorodibromomethane	0.125	0.102	81.7	74.0-127	
Chloroethane	0.125	0.120	96.3	61.0-134	
Chloroform	0.125	0.108	86.5	72.0-123	
Chloromethane	0.125	0.118	94.2	51.0-138	
2-Chlorotoluene	0.125	0.108	86.5	75.0-124	
4-Chlorotoluene	0.125	0.104	83.0	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.0918	73.5	59.0-130	
1,2-Dibromoethane	0.125	0.117	93.4	74.0-128	
Dibromomethane	0.125	0.113	90.2	75.0-122	
1,2-Dichlorobenzene	0.125	0.118	94.0	76.0-124	
1,3-Dichlorobenzene	0.125	0.117	93.3	76.0-125	
1,4-Dichlorobenzene	0.125	0.111	88.8	77.0-121	
1,1-Dichloroethane	0.125	0.107	85.4	70.0-127	
1,2-Dichloroethane	0.125	0.121	96.6	65.0-131	
trans-1,2-Dichloroethene	0.125	0.108	86.3	71.0-125	
1,2-Dichloropropane	0.125	0.121	96.8	74.0-125	
1,1-Dichloropropene	0.125	0.100	80.3	73.0-125	
1,3-Dichloropropane	0.125	0.122	97.6	80.0-125	
cis-1,3-Dichloropropene	0.125	0.113	90.1	76.0-127	
trans-1,3-Dichloropropene	0.125	0.110	87.9	73.0-127	
2,2-Dichloropropane	0.125	0.106	85.1	59.0-135	
Ethylbenzene	0.125	0.113	90.7	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.0890	71.2	57.0-150	
2-Hexanone	0.625	0.520	83.1	54.0-147	
n-Hexane	0.125	0.111	88.9	55.0-137	
Iodomethane	0.625	0.583	93.2	74.0-134	
Isopropylbenzene	0.125	0.103	82.2	72.0-127	
p-Isopropyltoluene	0.125	0.0988	79.0	72.0-133	
2-Butanone (MEK)	0.625	0.577	92.3	30.0-160	
Methylene Chloride	0.125	0.113	90.2	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.570	91.3	56.0-143	

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Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Laboratory Control Sample (LCS)

(LCS) R3377426-1 01/20/19 00:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Methyl tert-butyl ether	0.125	0.110	88.1	66.0-132	
Naphthalene	0.125	0.0911	72.9	59.0-130	
n-Propylbenzene	0.125	0.104	83.0	74.0-126	
Styrene	0.125	0.108	86.1	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.110	88.4	74.0-129	
Tetrachloroethene	0.125	0.125	99.9	70.0-136	
Toluene	0.125	0.121	96.5	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.104	83.4	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.0920	73.6	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.102	81.6	62.0-137	
1,1,1-Trichloroethane	0.125	0.106	84.9	69.0-126	
1,1,2-Trichloroethane	0.125	0.119	95.5	78.0-123	
Trichloroethene	0.125	0.114	91.5	76.0-126	
Trichlorofluoromethane	0.125	0.113	90.6	61.0-142	
1,2,3-Trichloropropane	0.125	0.114	90.9	67.0-129	
1,2,4-Trimethylbenzene	0.125	0.101	80.8	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.103	82.0	73.0-127	
Vinyl acetate	0.625	0.729	117	43.0-159	
Vinyl chloride	0.125	0.117	93.9	63.0-134	
Xylenes, Total	0.375	0.344	91.7	72.0-127	
(S) Toluene-d8			102	75.0-131	
(S) Dibromofluoromethane			90.2	65.0-129	
(S) 4-Bromofluorobenzene			87.0	67.0-138	

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

L1062401-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1062401-14 01/20/19 10:37 • (MS) R3377426-3 01/20/19 11:00 • (MSD) R3377426-4 01/20/19 11:22

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 %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Acetone	0.811	U	20.0	13.8	123	84.9	20	10.0-160			36.8	40
Acrylonitrile	0.811	U	16.2	11.3	99.8	69.5	20	10.0-160			35.8	40
Benzene	0.162	U	1.95	1.77	60.2	54.5	20	10.0-149			9.82	37
Bromobenzene	0.162	U	5.50	4.71	170	145	20	10.0-156	J5		15.6	38
Bromodichloromethane	0.162	U	2.55	2.18	78.6	67.2	20	10.0-143			15.6	37
Bromochloromethane	0.162	U	2.56	2.10	78.9	64.7	20	10.0-155			19.8	33
Bromoform	0.162	U	2.48	1.68	76.6	51.9	20	10.0-146		J3	38.4	36
Bromomethane	0.162	U	1.71	1.54	52.8	47.4	20	10.0-149			10.7	38
n-Butylbenzene	0.162	0.992	6.15	5.32	159	133	20	10.0-160			14.5	40
sec-Butylbenzene	0.162	1.06	6.42	5.59	165	140	20	10.0-159	J5		13.8	39

L1062401-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1062401-14 01/20/19 10:37 • (MS) R3377426-3 01/20/19 11:00 • (MSD) R3377426-4 01/20/19 11:22

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 %
tert-Butylbenzene	0.162	0.0883	2.76	2.40	82.3	71.1	20	10.0-156			14.0	39
Carbon disulfide	0.162	U	0.467	0.458	14.4	14.1	20	10.0-145			2.00	39
Carbon tetrachloride	0.162	U	1.98	1.90	61.1	58.5	20	10.0-145			4.28	37
Chlorobenzene	0.162	U	2.71	2.38	83.6	73.3	20	10.0-152			13.2	39
Chlorodibromomethane	0.162	U	2.61	2.02	80.6	62.4	20	10.0-146			25.5	37
Chloroethane	0.162	U	1.70	1.59	52.5	49.1	20	10.0-146			6.54	40
Chloroform	0.162	U	2.44	2.12	75.3	65.5	20	10.0-146			14.0	37
Chloromethane	0.162	U	1.28	1.16	39.4	35.9	20	10.0-159			9.41	37
2-Chlorotoluene	0.162	U	11.9	10.4	367	321	20	10.0-159	J5	J5	13.4	38
4-Chlorotoluene	0.162	U	2.46	2.12	75.9	65.5	20	10.0-155			14.8	39
1,2-Dibromo-3-Chloropropane	0.162	U	2.75	2.01	84.9	62.1	20	10.0-151			31.0	39
1,2-Dibromoethane	0.162	U	2.83	2.06	87.4	63.5	20	10.0-148			31.6	34
Dibromomethane	0.162	U	2.54	1.89	78.2	58.3	20	10.0-147			29.1	35
1,2-Dichlorobenzene	0.162	U	2.93	2.37	90.3	73.0	20	10.0-155			21.1	37
1,3-Dichlorobenzene	0.162	U	2.73	2.26	84.2	69.6	20	10.0-153			19.1	38
1,4-Dichlorobenzene	0.162	U	2.67	2.19	82.4	67.5	20	10.0-151			19.9	38
1,1-Dichloroethane	0.162	U	2.16	1.95	66.5	60.1	20	10.0-147			10.1	37
1,2-Dichloroethane	0.162	U	2.78	2.15	85.7	66.2	20	10.0-148			25.7	35
trans-1,2-Dichloroethene	0.162	U	1.48	1.45	45.6	44.7	20	10.0-150			2.05	37
1,2-Dichloropropane	0.162	U	2.64	2.21	81.4	68.1	20	10.0-148			17.9	37
1,1-Dichloropropene	0.162	U	1.61	1.56	49.5	48.2	20	10.0-153			2.82	35
1,3-Dichloropropane	0.162	U	2.94	2.29	90.6	70.5	20	10.0-154			25.0	35
cis-1,3-Dichloropropene	0.162	U	2.39	1.92	73.8	59.3	20	10.0-151			21.7	37
trans-1,3-Dichloropropene	0.162	U	2.49	1.94	76.7	59.7	20	10.0-148			25.0	37
2,2-Dichloropropane	0.162	U	1.92	1.83	59.2	56.4	20	10.0-138			4.84	36
Ethylbenzene	0.162	0.556	4.90	4.35	134	117	20	10.0-160			11.8	38
Hexachloro-1,3-butadiene	0.162	U	2.72	2.19	83.8	67.5	20	10.0-160			21.6	40
2-Hexanone	0.811	U	16.2	11.2	100	69.3	20	10.0-160		J3	36.3	36
n-Hexane	0.162	U	1.07	0.901	33.1	27.8	20	10.0-157			17.6	37
Iodomethane	0.811	U	8.10	7.39	50.0	45.6	20	10.0-160			9.12	38
Isopropylbenzene	0.162	3.18	15.8	13.8	388	327	20	10.0-155	J5	J5	13.5	38
p-Isopropyltoluene	0.162	0.889	5.97	5.31	157	136	20	10.0-160			11.7	40
2-Butanone (MEK)	0.811	U	17.5	11.8	108	72.7	20	10.0-160			38.8	40
Methylene Chloride	0.162	U	2.16	1.84	66.7	56.7	20	10.0-141			16.2	37
4-Methyl-2-pentanone (MIBK)	0.811	U	23.0	11.0	142	67.6	20	10.0-160		J3	70.9	35
Methyl tert-butyl ether	0.162	U	2.90	2.16	89.5	66.6	20	11.0-147			29.3	35
Naphthalene	0.162	10.6	40.5	38.7	921	864	20	10.0-160	J5	J5	4.67	36
n-Propylbenzene	0.162	9.22	41.2	36.3	985	836	20	10.0-158	J5	J5	12.4	38
Styrene	0.162	U	2.20	1.83	67.7	56.4	20	10.0-160			18.1	40

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



L1062401-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1062401-14 01/20/19 10:37 • (MS) R3377426-3 01/20/19 11:00 • (MSD) R3377426-4 01/20/19 11:22

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 %
1,1,1,2-Tetrachloroethane	0.162	U	2.74	2.33	84.4	71.9	20	10.0-149			15.9	39
Tetrachloroethene	0.162	U	2.02	1.91	62.2	59.0	20	10.0-156			5.27	39
Toluene	0.162	U	2.19	1.97	67.4	60.9	20	10.0-156			10.2	38
1,1,2-Trichlorotrifluoroethane	0.162	U	2.12	2.04	65.4	63.0	20	10.0-160			3.75	36
1,2,3-Trichlorobenzene	0.162	U	1.40	1.10	43.3	34.0	20	10.0-160			24.1	40
1,2,4-Trichlorobenzene	0.162	U	2.10	1.76	64.8	54.2	20	10.0-160			17.8	40
1,1,1-Trichloroethane	0.162	U	2.11	2.00	65.0	61.7	20	10.0-144			5.26	35
1,1,2-Trichloroethane	0.162	U	4.95	3.93	153	121	20	10.0-160			23.1	35
Trichloroethene	0.162	U	2.24	1.90	69.0	58.7	20	10.0-156			16.1	38
Trichlorofluoromethane	0.162	U	1.96	1.94	60.3	59.9	20	10.0-160			0.643	40
1,2,3-Trichloropropane	0.162	U	8.39	6.68	259	206	20	10.0-156	J5	J5	22.7	35
1,2,4-Trimethylbenzene	0.162	33.6	134	120	3110	2660	20	10.0-160	E V	E V	11.5	36
1,3,5-Trimethylbenzene	0.162	19.7	79.8	70.0	1850	1550	20	10.0-160	V	V	13.0	38
Vinyl acetate	0.811	U	11.2	10.1	69.2	62.1	20	10.0-128			10.8	40
Vinyl chloride	0.162	U	1.41	1.42	43.4	43.9	20	10.0-160			1.28	37
Xylenes, Total	0.486	10.9	54.9	48.4	452	385	20	10.0-160	J5	J5	12.6	38
(S) Toluene-d8					102	103		75.0-131				
(S) Dibromofluoromethane					91.6	93.4		65.0-129				
(S) 4-Bromofluorobenzene					253	233		67.0-138	J1	J1		

Sample Narrative:

OS: Non-target compounds too high to run at a lower dilution.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

[L1061673-02,03,05,06,07,08,09,10](#)

Method Blank (MB)

(MB) R3377752-2 01/20/19 10:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3377752-2 01/20/19 10:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250
n-Hexane	U		0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	0.00144	U	0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	97.5			75.0-131
(S) Dibromofluoromethane	111			65.0-129
(S) 4-Bromofluorobenzene	92.8			67.0-138

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Laboratory Control Sample (LCS)

(LCS) R3377752-1 01/20/19 09:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	0.625	0.576	92.1	10.0-160	
Acrylonitrile	0.625	0.696	111	45.0-153	
Benzene	0.125	0.130	104	70.0-123	
Bromobenzene	0.125	0.123	98.8	73.0-121	
Bromodichloromethane	0.125	0.134	107	73.0-121	
Bromochloromethane	0.125	0.133	106	77.0-128	
Bromoform	0.125	0.150	120	64.0-132	
Bromomethane	0.125	0.171	137	56.0-147	
n-Butylbenzene	0.125	0.111	88.7	68.0-135	
sec-Butylbenzene	0.125	0.137	109	74.0-130	
tert-Butylbenzene	0.125	0.125	100	75.0-127	
Carbon disulfide	0.125	0.130	104	56.0-133	
Carbon tetrachloride	0.125	0.134	107	66.0-128	
Chlorobenzene	0.125	0.119	95.5	76.0-128	
Chlorodibromomethane	0.125	0.135	108	74.0-127	
Chloroethane	0.125	0.138	111	61.0-134	
Chloroform	0.125	0.122	98.0	72.0-123	
Chloromethane	0.125	0.115	92.0	51.0-138	
2-Chlorotoluene	0.125	0.135	108	75.0-124	
4-Chlorotoluene	0.125	0.133	106	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.121	96.5	59.0-130	
1,2-Dibromoethane	0.125	0.130	104	74.0-128	
Dibromomethane	0.125	0.134	107	75.0-122	
1,2-Dichlorobenzene	0.125	0.126	101	76.0-124	
1,3-Dichlorobenzene	0.125	0.131	105	76.0-125	
1,4-Dichlorobenzene	0.125	0.120	95.8	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.121	96.7	45.0-143	
Dichlorodifluoromethane	0.125	0.107	85.8	43.0-156	
1,1-Dichloroethane	0.125	0.131	105	70.0-127	
1,2-Dichloroethane	0.125	0.129	103	65.0-131	
1,1-Dichloroethene	0.125	0.116	93.1	65.0-131	
cis-1,2-Dichloroethene	0.125	0.132	106	73.0-125	
trans-1,2-Dichloroethene	0.125	0.124	99.5	71.0-125	
1,2-Dichloropropane	0.125	0.129	103	74.0-125	
1,1-Dichloropropene	0.125	0.120	96.0	73.0-125	
1,3-Dichloropropane	0.125	0.137	110	80.0-125	
cis-1,3-Dichloropropene	0.125	0.140	112	76.0-127	
trans-1,3-Dichloropropene	0.125	0.137	109	73.0-127	
2,2-Dichloropropane	0.125	0.108	86.2	59.0-135	
Di-isopropyl ether	0.125	0.131	105	60.0-136	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Laboratory Control Sample (LCS)

(LCS) R3377752-1 01/20/19 09:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	0.125	0.129	103	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.110	87.9	57.0-150	
2-Hexanone	0.625	0.792	127	54.0-147	
n-Hexane	0.125	0.114	91.1	55.0-137	
Iodomethane	0.625	0.601	96.2	74.0-134	
Isopropylbenzene	0.125	0.115	91.9	72.0-127	
p-Isopropyltoluene	0.125	0.132	105	72.0-133	
2-Butanone (MEK)	0.625	0.755	121	30.0-160	
Methylene Chloride	0.125	0.113	90.1	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.716	115	56.0-143	
Methyl tert-butyl ether	0.125	0.123	98.4	66.0-132	
Naphthalene	0.125	0.0788	63.0	59.0-130	
n-Propylbenzene	0.125	0.117	93.7	74.0-126	
Styrene	0.125	0.104	83.2	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.128	102	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.134	107	68.0-128	
Tetrachloroethene	0.125	0.126	101	70.0-136	
Toluene	0.125	0.112	89.6	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.102	82.0	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.0708	56.7	59.0-139	J4
1,2,4-Trichlorobenzene	0.125	0.0779	62.3	62.0-137	
1,1,1-Trichloroethane	0.125	0.128	103	69.0-126	
1,1,2-Trichloroethane	0.125	0.133	106	78.0-123	
Trichloroethene	0.125	0.147	117	76.0-126	
Trichlorofluoromethane	0.125	0.111	88.4	61.0-142	
1,2,3-Trichloropropane	0.125	0.139	112	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.108	86.1	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.111	89.0	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.136	109	73.0-127	
Vinyl acetate	0.625	0.499	79.8	43.0-159	
Vinyl chloride	0.125	0.0856	68.5	63.0-134	
Xylenes, Total	0.375	0.385	103	72.0-127	
(S) Toluene-d8			101	75.0-131	
(S) Dibromofluoromethane			102	65.0-129	
(S) 4-Bromofluorobenzene			104	67.0-138	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1062537-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1062537-12 01/20/19 19:05 • (MS) R3377752-3 01/20/19 19:24 • (MSD) R3377752-4 01/20/19 19:44

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 %
Acetone	0.700	U	55.5	26.1	198	93.1	40	10.0-160	J5	J3	72.2	40
Acrylonitrile	0.700	U	43.7	25.6	156	91.3	40	10.0-160		J3	52.2	40
Benzene	0.140	0.0232	4.04	2.02	71.7	35.7	40	10.0-149		J3	66.5	37
Bromobenzene	0.140	U	4.73	3.55	84.5	63.4	40	10.0-156			28.5	38
Bromodichloromethane	0.140	U	5.24	3.46	93.6	61.7	40	10.0-143		J3	41.0	37
Bromochloromethane	0.140	U	4.42	2.84	78.9	50.7	40	10.0-155		J3	43.5	33
Bromoform	0.140	U	6.31	5.97	113	107	40	10.0-146			5.61	36
Bromomethane	0.140	U	2.40	1.05	42.8	18.7	40	10.0-149		J3	78.6	38
n-Butylbenzene	0.140	9.50	18.7	17.1	165	136	40	10.0-160	J5		8.94	40
sec-Butylbenzene	0.140	1.62	7.66	6.03	108	78.6	40	10.0-159			23.8	39
tert-Butylbenzene	0.140	U	5.35	2.69	95.5	47.9	40	10.0-156		J3	66.3	39
Carbon disulfide	0.140	U	0.743	0.323	13.3	5.77	40	10.0-145		J3 J6	78.7	39
Carbon tetrachloride	0.140	U	4.45	1.81	79.4	32.3	40	10.0-145		J3	84.4	37
Chlorobenzene	0.140	U	5.32	3.20	95.0	57.1	40	10.0-152		J3	49.8	39
Chlorodibromomethane	0.140	U	6.00	4.70	107	83.8	40	10.0-146			24.3	37
Chloroethane	0.140	U	2.93	1.25	52.3	22.3	40	10.0-146		J3	80.3	40
Chloroform	0.140	0.0231	4.83	2.62	85.8	46.4	40	10.0-146		J3	59.3	37
Chloromethane	0.140	U	2.16	0.927	38.6	16.5	40	10.0-159		J3	80.0	37
2-Chlorotoluene	0.140	U	5.39	3.33	96.3	59.4	40	10.0-159		J3	47.3	38
4-Chlorotoluene	0.140	U	8.40	6.87	150	123	40	10.0-155			20.1	39
1,2-Dibromo-3-Chloropropane	0.140	U	7.61	6.39	136	114	40	10.0-151			17.4	39
1,2-Dibromoethane	0.140	U	4.97	4.25	88.7	75.8	40	10.0-148			15.7	34
Dibromomethane	0.140	U	4.87	3.57	87.0	63.7	40	10.0-147			31.0	35
1,2-Dichlorobenzene	0.140	U	5.56	4.03	99.2	71.9	40	10.0-155			31.8	37
1,3-Dichlorobenzene	0.140	U	5.28	3.51	94.2	62.7	40	10.0-153		J3	40.2	38
1,4-Dichlorobenzene	0.140	U	4.85	3.37	86.5	60.2	40	10.0-151			35.9	38
trans-1,4-Dichloro-2-butene	0.140	0.137	5.79	6.23	101	109	40	10.0-152			7.31	36
Dichlorodifluoromethane	0.140	U	3.77	1.36	67.2	24.2	40	10.0-160		J3	94.0	35
1,1-Dichloroethane	0.140	U	4.74	2.35	84.6	41.9	40	10.0-147		J3	67.5	37
1,2-Dichloroethane	0.140	U	4.71	3.16	84.1	56.4	40	10.0-148		J3	39.4	35
1,1-Dichloroethene	0.140	U	2.86	1.15	51.1	20.5	40	10.0-155		J3	85.6	37
cis-1,2-Dichloroethene	0.140	U	4.51	2.38	80.5	42.5	40	10.0-149		J3	61.9	37
trans-1,2-Dichloroethene	0.140	U	2.77	1.28	49.4	22.8	40	10.0-150		J3	73.7	37
1,2-Dichloropropane	0.140	U	4.79	2.79	85.5	49.9	40	10.0-148		J3	52.6	37
1,1-Dichloropropene	0.140	U	3.39	1.33	60.5	23.7	40	10.0-153		J3	87.2	35
1,3-Dichloropropane	0.140	U	5.35	4.37	95.5	78.1	40	10.0-154			20.0	35
cis-1,3-Dichloropropene	0.140	U	5.39	3.81	96.3	68.0	40	10.0-151			34.5	37
trans-1,3-Dichloropropene	0.140	U	5.64	4.46	101	79.6	40	10.0-148			23.3	37
2,2-Dichloropropane	0.140	U	4.53	1.97	80.9	35.1	40	10.0-138		J3	79.0	36

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1062537-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1062537-12 01/20/19 19:05 • (MS) R3377752-3 01/20/19 19:24 • (MSD) R3377752-4 01/20/19 19:44

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 %
Di-isopropyl ether	0.140	U	5.81	3.95	104	70.6	40	10.0-147		J3	38.0	36
Ethylbenzene	0.140	10.4	20.7	18.5	185	145	40	10.0-160	J5		11.3	38
Hexachloro-1,3-butadiene	0.140	U	5.52	3.22	98.6	57.5	40	10.0-160		J3	52.6	40
2-Hexanone	0.700	U	40.5	38.1	145	136	40	10.0-160			5.95	36
n-Hexane	0.140	5.45	9.81	9.44	77.7	71.1	40	10.0-157			3.84	37
Iodomethane	0.700	U	13.5	6.44	48.1	23.0	40	10.0-160		J3	70.7	38
Isopropylbenzene	0.140	1.46	6.88	5.08	96.8	64.6	40	10.0-155			30.1	38
p-Isopropyltoluene	0.140	0.724	6.66	4.03	106	58.9	40	10.0-160		J3	49.3	40
2-Butanone (MEK)	0.700	U	41.3	31.5	147	112	40	10.0-160			26.9	40
Methylene Chloride	0.140	U	3.50	2.06	62.4	36.8	40	10.0-141		J3	51.5	37
4-Methyl-2-pentanone (MIBK)	0.700	U	37.0	32.5	132	116	40	10.0-160			13.0	35
Methyl tert-butyl ether	0.140	U	6.08	4.69	108	83.6	40	11.0-147			25.8	35
Naphthalene	0.140	10.2	23.8	21.6	244	204	40	10.0-160	J5	J5	10.0	36
n-Propylbenzene	0.140	6.95	14.5	13.8	135	122	40	10.0-158			5.33	38
Styrene	0.140	U	4.35	3.00	77.6	53.5	40	10.0-160			36.9	40
1,1,1,2-Tetrachloroethane	0.140	U	5.87	3.73	105	66.5	40	10.0-149		J3	44.7	39
1,1,2,2-Tetrachloroethane	0.140	U	5.89	5.48	105	97.8	40	10.0-160			7.16	35
Tetrachloroethene	0.140	U	3.55	1.66	63.4	29.6	40	10.0-156		J3	72.7	39
Toluene	0.140	2.40	6.80	5.49	78.4	55.1	40	10.0-156			21.2	38
1,1,2-Trichlorotrifluoroethane	0.140	U	3.17	1.13	56.5	20.1	40	10.0-160		J3	94.9	36
1,2,3-Trichlorobenzene	0.140	U	4.21	3.44	75.1	61.4	40	10.0-160			20.0	40
1,2,4-Trichlorobenzene	0.140	U	5.03	3.70	89.8	66.1	40	10.0-160			30.4	40
1,1,1-Trichloroethane	0.140	U	4.74	2.03	84.6	36.3	40	10.0-144		J3	79.9	35
1,1,2-Trichloroethane	0.140	U	5.68	4.60	101	82.1	40	10.0-160			21.0	35
Trichloroethene	0.140	U	4.52	2.39	80.7	42.7	40	10.0-156		J3	61.7	38
Trichlorofluoromethane	0.140	U	2.97	1.12	52.9	19.9	40	10.0-160		J3	90.6	40
1,2,3-Trichloropropane	0.140	U	5.94	5.58	106	99.6	40	10.0-156			6.20	35
1,2,3-Trimethylbenzene	0.140	16.5	28.1	28.9	207	222	40	10.0-160	J5	J5	2.91	36
1,2,4-Trimethylbenzene	0.140	60.9	70.2	80.7	165	353	40	10.0-160	E V	E V	14.0	36
1,3,5-Trimethylbenzene	0.140	28.8	40.8	44.6	214	282	40	10.0-160	E V	E V	8.95	38
Vinyl acetate	0.700	0.634	30.5	22.4	107	77.9	40	10.0-128			30.4	40
Vinyl chloride	0.140	U	0.804	0.533	14.4	9.52	40	10.0-160		J3 J6	40.5	37
Xylenes, Total	0.420	79.1	113	114	203	205	40	10.0-160	J5 V	J5 V	0.296	38
(S) Toluene-d8					104	108		75.0-131				
(S) Dibromofluoromethane					101	95.1		65.0-129				
(S) 4-Bromofluorobenzene					97.6	107		67.0-138				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3377567-3 01/21/19 17:34

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
Di-isopropyl ether	U		0.000350	0.00100
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
1,2,3-Trimethylbenzene	U		0.00115	0.00500
(S) Toluene-d8	106			75.0-131
(S) Dibromofluoromethane	93.2			65.0-129
(S) 4-Bromofluorobenzene	99.9			67.0-138

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

(LCS) R3377567-1 01/21/19 16:13 • (LCSD) R3377567-2 01/21/19 16:33

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 %
trans-1,4-Dichloro-2-butene	0.125	0.100	0.105	80.4	84.0	45.0-143			4.38	20
Dichlorodifluoromethane	0.125	0.0830	0.0827	66.4	66.2	43.0-156			0.432	20
1,1-Dichloroethene	0.125	0.116	0.122	92.9	97.4	65.0-131			4.72	20
cis-1,2-Dichloroethene	0.125	0.126	0.123	101	98.5	73.0-125			2.12	20
Di-isopropyl ether	0.125	0.102	0.107	81.8	85.9	60.0-136			4.82	20
1,1,2,2-Tetrachloroethane	0.125	0.129	0.129	103	104	68.0-128			0.275	20
1,2,3-Trimethylbenzene	0.125	0.122	0.122	97.6	97.6	74.0-124			0.00533	20
(S) Toluene-d8				106	104	75.0-131				
(S) Dibromofluoromethane				101	101	65.0-129				
(S) 4-Bromofluorobenzene				101	100	67.0-138				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3377860-2 01/22/19 21:03

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Tetrachloroethene	U		0.000700	0.00250
(S) Toluene-d8	108			75.0-131
(S) Dibromofluoromethane	99.0			65.0-129
(S) 4-Bromofluorobenzene	105			67.0-138

Laboratory Control Sample (LCS)

(LCS) R3377860-1 01/22/19 20:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Tetrachloroethene	0.125	0.127	101	70.0-136	
(S) Toluene-d8			106	75.0-131	
(S) Dibromofluoromethane			101	65.0-129	
(S) 4-Bromofluorobenzene			105	67.0-138	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3377213-2 01/17/19 18:07

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

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3377213-2 01/17/19 18:07

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	102			80.0-120
(S) Dibromofluoromethane	104			75.0-120
(S) 4-Bromofluorobenzene	100			77.0-126

1

Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Sc



Laboratory Control Sample (LCS)

(LCS) R3377213-1 01/17/19 17:27

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	125	111	88.4	19.0-160	
Acrylonitrile	125	114	91.4	55.0-149	
Benzene	25.0	24.4	97.5	70.0-123	
Bromobenzene	25.0	22.2	89.0	73.0-121	
Bromodichloromethane	25.0	26.3	105	75.0-120	
Bromochloromethane	25.0	26.6	106	76.0-122	
Bromoform	25.0	21.9	87.5	68.0-132	
Bromomethane	25.0	28.2	113	10.0-160	
n-Butylbenzene	25.0	26.3	105	73.0-125	
sec-Butylbenzene	25.0	25.3	101	75.0-125	
tert-Butylbenzene	25.0	25.4	101	76.0-124	
Carbon disulfide	25.0	24.1	96.3	61.0-128	
Carbon tetrachloride	25.0	23.7	94.9	68.0-126	
Chlorobenzene	25.0	27.5	110	80.0-121	
Chlorodibromomethane	25.0	25.0	100	77.0-125	
Chloroethane	25.0	26.1	105	47.0-150	
Chloroform	25.0	24.6	98.5	73.0-120	
Chloromethane	25.0	28.4	114	41.0-142	
2-Chlorotoluene	25.0	23.4	93.8	76.0-123	
4-Chlorotoluene	25.0	23.5	93.9	75.0-122	
1,2-Dibromo-3-Chloropropane	25.0	22.2	88.9	58.0-134	
1,2-Dibromoethane	25.0	24.5	98.0	80.0-122	
Dibromomethane	25.0	24.5	97.9	80.0-120	
1,2-Dichlorobenzene	25.0	26.5	106	79.0-121	
1,3-Dichlorobenzene	25.0	26.4	106	79.0-120	
1,4-Dichlorobenzene	25.0	24.7	98.9	79.0-120	
Dichlorodifluoromethane	25.0	27.2	109	51.0-149	
1,1-Dichloroethane	25.0	26.2	105	70.0-126	
1,2-Dichloroethane	25.0	25.1	100	70.0-128	
1,1-Dichloroethene	25.0	25.6	102	71.0-124	
cis-1,2-Dichloroethene	25.0	26.6	106	73.0-120	
trans-1,2-Dichloroethene	25.0	25.9	104	73.0-120	
1,2-Dichloropropane	25.0	26.3	105	77.0-125	
1,1-Dichloropropene	25.0	24.4	97.5	74.0-126	
1,3-Dichloropropane	25.0	25.6	102	80.0-120	
cis-1,3-Dichloropropene	25.0	26.5	106	80.0-123	
trans-1,3-Dichloropropene	25.0	26.5	106	78.0-124	
trans-1,4-Dichloro-2-butene	25.0	19.0	75.9	33.0-144	
2,2-Dichloropropane	25.0	31.8	127	58.0-130	
Di-isopropyl ether	25.0	25.9	104	58.0-138	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Laboratory Control Sample (LCS)

(LCS) R3377213-1 01/17/19 17:27

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	25.0	26.1	104	79.0-123	
Hexachloro-1,3-butadiene	25.0	27.0	108	54.0-138	
2-Hexanone	125	114	91.5	67.0-149	
n-Hexane	25.0	24.2	97.0	57.0-133	
Iodomethane	125	127	101	33.0-147	
Isopropylbenzene	25.0	24.6	98.4	76.0-127	
p-Isopropyltoluene	25.0	26.4	106	76.0-125	
2-Butanone (MEK)	125	101	80.5	44.0-160	
Methylene Chloride	25.0	24.2	96.8	67.0-120	
4-Methyl-2-pentanone (MIBK)	125	110	88.2	68.0-142	
Methyl tert-butyl ether	25.0	26.1	104	68.0-125	
Naphthalene	25.0	21.9	87.5	54.0-135	
n-Propylbenzene	25.0	24.1	96.6	77.0-124	
Styrene	25.0	25.1	101	73.0-130	
1,1,1,2-Tetrachloroethane	25.0	28.3	113	75.0-125	
1,1,2,2-Tetrachloroethane	25.0	20.1	80.3	65.0-130	
1,1,2-Trichlorotrifluoroethane	25.0	25.1	100	69.0-132	
Tetrachloroethene	25.0	26.6	106	72.0-132	
Toluene	25.0	25.9	104	79.0-120	
1,2,3-Trichlorobenzene	25.0	25.4	102	50.0-138	
1,2,4-Trichlorobenzene	25.0	28.1	112	57.0-137	
1,1,1-Trichloroethane	25.0	26.6	107	73.0-124	
1,1,2-Trichloroethane	25.0	24.7	98.6	80.0-120	
Trichloroethene	25.0	26.0	104	78.0-124	
Trichlorofluoromethane	25.0	26.4	106	59.0-147	
1,2,3-Trichloropropane	25.0	21.7	86.6	73.0-130	
1,2,4-Trimethylbenzene	25.0	24.9	99.8	76.0-121	
1,2,3-Trimethylbenzene	25.0	20.0	79.8	77.0-120	
1,3,5-Trimethylbenzene	25.0	24.0	96.1	76.0-122	
Vinyl acetate	125	110	88.1	11.0-160	
Vinyl chloride	25.0	26.3	105	67.0-131	
Xylenes, Total	75.0	82.8	110	79.0-123	
(S) Toluene-d8			104	80.0-120	
(S) Dibromofluoromethane			103	75.0-120	
(S) 4-Bromofluorobenzene			90.8	77.0-126	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



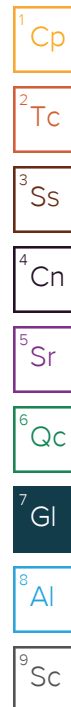
Guide to Reading and Understanding Your Laboratory Report

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, the sample preparation volume or weight values differ from the standard, 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.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
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
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
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.
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.
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.





Pace National 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.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN2000002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

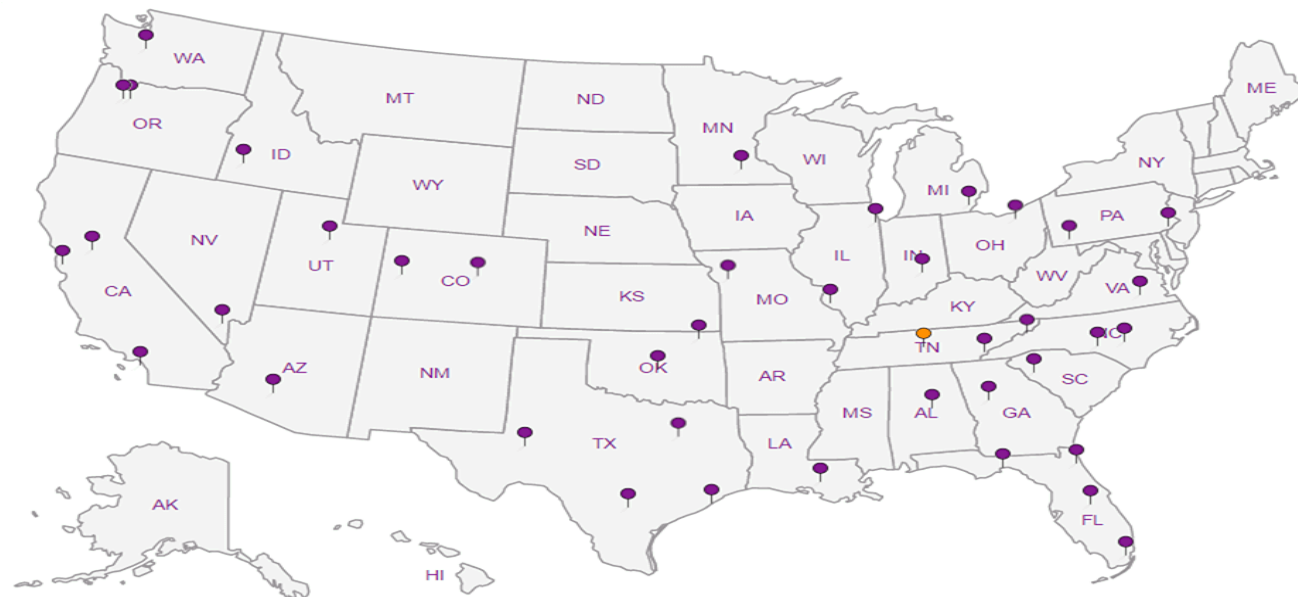
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National 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. Pace National 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
Chl:

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Report to:
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;
bhaldeman@pesenv.com;

Project
Description: American Linen

City/State
Collected: SEATTLE, WA

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

Client Project #
1413.001.05.601 501

Lab Project #
PESENVSWA-ALP

Collected by (print):
S. MCKERNAN

Site/Facility ID #
AMERICAN LINEN

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Same Day Five Day
Next Day 5 Day (Rad Only)
Two Day 10 Day (Rad Only)
Three Day

Date Results Needed

Immediately
Packed on Ice N Y X

No.
of
Cnts

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cnts
B11D11-10	GRAB	SS	10	1/15/19	0919	2
B11D11-15		SS	15		0921	1
B11D11-20		SS	20		0923	
B11D11-27		SS	27		0940	
B11D11-30		SS	30		0955	
B11D11-35		SS	35		1000	
B11D11-40		SS	40		1005	
B11D11-46		SS	46		1112	
B-928-46		SS	46		1115	
B11D11-50		SS	50		1118	

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

Remarks:

RAD SCREEN: <0.5 mR/hr Temp _____

Flow _____ Other _____

Samples returned via:
UPS ☒ FedEx ☐ Courier ☐

Tracking # 4570 1658 8882

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: 1/15/19

Time: 1245

Received by: (Signature)

Trip Blank Received: Yes ☒ No ☐
HCL MeOH
TBR

Relinquished by: (Signature)

Date: 1/15/19

Time: 1337

Received by: (Signature)

Temp: 4.8°C Bottles Received: 24
4.8-1=4.7

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: 1/16/19 Time: 0830

Hold:

Condition:
NCF / OK



L# 1061673

H068

Acctnum: PESENVSWA

Template: T144071

Prelogin: P686053

TSR: 110 - Brian Ford

PB: 12/14/18

Shipped Via: FedEx Ground

Remarks Sample # (lab only)

01
02
03
04
05
06
07
08
09
10

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
Cl:

Analysis / Container / Preservative

Chain of Custody Page 2 of 2



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



Report to:
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;
bhaldean@pesenv.com;

Project
Description: American Linen

City/State
Collected: SEATTLE, WA

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

Client Project #
1413.001.05.601

Lab Project #
PESENVSWA-ALP

Collected by (print):
S. McKernan

Site/Facility ID #
AMERICAN LINEN

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Immediately
Packed on Ice N Y

Same Day Five Day
Next Day 5 Day (Rad Only)
Two Day 10 Day (Rad Only)
Three Day

Date Results Needed

Nc.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Nc. of Cntrs
S1-8843-011519	GRAB	SS	NA	1/15/19	1120	2
S2-8843-011519	↓	SS	NA	↓	1122	2
TRIPBLANK-011519	-	SS	-	10/02/18	-	1
		SS				
		SS				
		SS				
		SS				
		SS				
		SS				
		SS				
		SS				

ULS (v.260u) 40mlAmb-HCl-BLK

dry weight 2ozClr-NoPres

trip blk VOCs (LLC) 40mlAmb-HCl-BLK

L # 1061673

Table #

Acctnum: PESENVSWA

Template: T144071

Prelogin: P686053

TSR: 110 - Brian Ford

PB: 12/14/18/1W

Shipped Via: FedEx Ground

Remarks Sample # (lab only)

48 HR TAT 11
48 HR TAT 12
48 HR TAT 13

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

Remarks:

Samples returned via:
UPS FedEx Courier

Tracking #

pH Temp

RAD SCREEN: <0.5

Flow Other

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: 1/15/19

Time: 1245

Received by: (Signature)

Chin Debra

Trip Blank Received: Yes/No

1 HCl/MeOH
TBR

Relinquished by: (Signature)

Date: 1/15/19

Time: 1337

Received by: (Signature)

Temp: 4.8-1=4.7

Bottles Received: 24

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

BR Fair

Date: 1/16/19

Time: 0830

Hold:

Condition:
NCF / OK

January 28, 2019

PES Environmental, Inc.- WA

Sample Delivery Group: L1062820
Samples Received: 01/19/2019
Project Number: 1413.001.05.501
Description: American Linen
Site: AMERICAN LINEN
Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:



Jason Romer
Project Manager

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 Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Sr: Sample Results	6
B2D2-3 L1062820-01	6
B2D2-6 L1062820-02	8
A3C3-3 L1062820-03	10
A3C3-6 L1062820-04	12
A3C3-8 L1062820-05	14
B4D4-3 L1062820-06	16
B4D4-6 L1062820-07	18
B4D4-10 L1062820-08	20
TB-011819 L1062820-09	22
Qc: Quality Control Summary	24
Total Solids by Method 2540 G-2011	24
Volatile Organic Compounds (GC) by Method NWTPHGX	26
Volatile Organic Compounds (GC/MS) by Method 8260C	27
Gl: Glossary of Terms	36
Al: Accreditations & Locations	37
Sc: Sample Chain of Custody	38



SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B2D2-3 L1062820-01 Solid

Collected by
Ben Hecht

Collected date/time
01/16/19 08:55

Received date/time
01/19/19 09:20

¹ Cp

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1226664	1	01/22/19 12:53	01/22/19 13:06	JD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1226427	25	01/16/19 08:55	01/22/19 07:27	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226460	1	01/16/19 08:55	01/22/19 13:27	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228513	1	01/16/19 08:55	01/25/19 23:26	BMB

² Tc

³ Ss

⁴ Cn

B2D2-6 L1062820-02 Solid

Collected by
Ben Hecht

Collected date/time
01/16/19 10:10

Received date/time
01/19/19 09:20

⁵ Sr

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1226664	1	01/22/19 12:53	01/22/19 13:06	JD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1226427	25	01/16/19 10:10	01/22/19 07:52	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226460	1	01/16/19 10:10	01/22/19 13:49	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228513	1	01/16/19 10:10	01/25/19 23:46	BMB

⁶ Qc

⁷ Gl

A3C3-3 L1062820-03 Solid

Collected by
Ben Hecht

Collected date/time
01/16/19 14:35

Received date/time
01/19/19 09:20

⁸ Al

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1226664	1	01/22/19 12:53	01/22/19 13:06	JD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1226427	25	01/16/19 14:35	01/22/19 08:16	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226460	1	01/16/19 14:35	01/22/19 14:12	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228513	1	01/16/19 14:35	01/26/19 00:07	BMB

⁹ Sc

A3C3-6 L1062820-04 Solid

Collected by
Ben Hecht

Collected date/time
01/16/19 14:50

Received date/time
01/19/19 09:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1226664	1	01/22/19 12:53	01/22/19 13:06	JD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1226427	25	01/16/19 14:50	01/22/19 08:40	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226460	1	01/16/19 14:50	01/22/19 14:34	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228513	1	01/16/19 14:50	01/26/19 00:27	BMB

A3C3-8 L1062820-05 Solid

Collected by
Ben Hecht

Collected date/time
01/16/19 15:05

Received date/time
01/19/19 09:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1226664	1	01/22/19 12:53	01/22/19 13:06	JD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1226427	31.75	01/16/19 15:05	01/22/19 09:05	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226460	1.27	01/16/19 15:05	01/22/19 14:56	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228513	1.27	01/16/19 15:05	01/26/19 00:47	BMB

B4D4-3 L1062820-06 Solid

Collected by
Ben Hecht

Collected date/time
01/17/19 08:25

Received date/time
01/19/19 09:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1226762	1	01/23/19 12:31	01/23/19 12:49	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226460	1	01/17/19 08:25	01/22/19 15:19	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228513	1	01/17/19 08:25	01/26/19 01:08	BMB

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

1413.001.05.501

SDG:

L1062820

DATE/TIME:

01/28/19 11:02

PAGE:

3 of 39

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B4D4-6 L1062820-07 Solid

Collected by
Ben HechtCollected date/time
01/17/19 09:40Received date/time
01/19/19 09:20¹ Cp

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1226762	1	01/23/19 12:31	01/23/19 12:49	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226460	1.07	01/17/19 09:40	01/22/19 15:41	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228513	1.06	01/17/19 09:40	01/26/19 01:27	BMB

² Tc³ Ss

B4D4-10 L1062820-08 Solid

Collected by
Ben HechtCollected date/time
01/17/19 10:30Received date/time
01/19/19 09:20⁴ Cn

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1226762	1	01/23/19 12:31	01/23/19 12:49	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226460	1	01/17/19 10:30	01/22/19 16:03	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228513	1	01/17/19 10:30	01/26/19 01:48	BMB

⁵ Sr⁶ Qc⁷ Gl

TB-011819 L1062820-09 GW

Collected by
Ben HechtCollected date/time
01/17/19 13:00Received date/time
01/19/19 09:20⁸ Al

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226185	1	01/20/19 22:41	01/20/19 22:41	JHH

⁹ Sc

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

1413.001.05.501

SDG:

L1062820

DATE/TIME:

01/28/19 11:02

PAGE:

4 of 39



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, 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.

Jason Romer
Project Manager

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	91.7		1	01/22/2019 13:06	WG1226664

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

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		0.924	2.73	25	01/22/2019 07:27	WG1226427
(S) a,a,a-Trifluorotoluene(FID)	94.3			77.0-120		01/22/2019 07:27	WG1226427

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0149	0.0273	1	01/22/2019 13:27	WG1226460
Acrylonitrile	U		0.00207	0.0136	1	01/22/2019 13:27	WG1226460
Benzene	U		0.000436	0.00109	1	01/22/2019 13:27	WG1226460
Bromobenzene	U		0.00114	0.0136	1	01/22/2019 13:27	WG1226460
Bromodichloromethane	U		0.000859	0.00273	1	01/22/2019 13:27	WG1226460
Bromochloromethane	U		0.00123	0.00545	1	01/22/2019 13:27	WG1226460
Bromoform	U		0.00652	0.0273	1	01/22/2019 13:27	WG1226460
Bromomethane	U		0.00403	0.0136	1	01/22/2019 13:27	WG1226460
n-Butylbenzene	U		0.00419	0.0136	1	01/25/2019 23:26	WG1228513
sec-Butylbenzene	U		0.00276	0.0136	1	01/22/2019 13:27	WG1226460
tert-Butylbenzene	U		0.00169	0.00545	1	01/22/2019 13:27	WG1226460
Carbon disulfide	U		0.00443	0.0136	1	01/22/2019 13:27	WG1226460
Carbon tetrachloride	U		0.00118	0.00545	1	01/22/2019 13:27	WG1226460
Chlorobenzene	U		0.000625	0.00273	1	01/22/2019 13:27	WG1226460
Chlorodibromomethane	U		0.000491	0.00273	1	01/22/2019 13:27	WG1226460
Chloroethane	U		0.00118	0.00545	1	01/22/2019 13:27	WG1226460
Chloroform	U		0.000452	0.00273	1	01/22/2019 13:27	WG1226460
Chloromethane	U		0.00152	0.0136	1	01/22/2019 13:27	WG1226460
2-Chlorotoluene	U		0.00100	0.00273	1	01/22/2019 13:27	WG1226460
4-Chlorotoluene	U		0.00123	0.00545	1	01/22/2019 13:27	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00556	0.0273	1	01/25/2019 23:26	WG1228513
1,2-Dibromoethane	U		0.000572	0.00273	1	01/22/2019 13:27	WG1226460
Dibromomethane	U		0.00109	0.00545	1	01/22/2019 13:27	WG1226460
1,2-Dichlorobenzene	U		0.00158	0.00545	1	01/22/2019 13:27	WG1226460
1,3-Dichlorobenzene	U		0.00185	0.00545	1	01/22/2019 13:27	WG1226460
1,4-Dichlorobenzene	U		0.00215	0.00545	1	01/22/2019 13:27	WG1226460
Dichlorodifluoromethane	U		0.000892	0.00273	1	01/25/2019 23:26	WG1228513
1,1-Dichloroethane	U		0.000627	0.00273	1	01/22/2019 13:27	WG1226460
1,2-Dichloroethane	U		0.000518	0.00273	1	01/22/2019 13:27	WG1226460
1,1-Dichloroethene	U		0.000545	0.00273	1	01/25/2019 23:26	WG1228513
cis-1,2-Dichloroethene	U		0.000752	0.00273	1	01/25/2019 23:26	WG1228513
trans-1,2-Dichloroethene	U		0.00156	0.00545	1	01/22/2019 13:27	WG1226460
1,2-Dichloropropane	U		0.00138	0.00545	1	01/22/2019 13:27	WG1226460
1,1-Dichloropropene	U		0.000763	0.00273	1	01/22/2019 13:27	WG1226460
1,3-Dichloropropane	U		0.00191	0.00545	1	01/22/2019 13:27	WG1226460
cis-1,3-Dichloropropene	U		0.000739	0.00273	1	01/22/2019 13:27	WG1226460
trans-1,3-Dichloropropene	U		0.00167	0.00545	1	01/22/2019 13:27	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00153	0.00545	1	01/25/2019 23:26	WG1228513
2,2-Dichloropropane	U		0.000864	0.00273	1	01/22/2019 13:27	WG1226460
Di-isopropyl ether	U		0.000382	0.00109	1	01/25/2019 23:26	WG1228513
Ethylbenzene	U		0.000578	0.00273	1	01/22/2019 13:27	WG1226460
Hexachloro-1,3-butadiene	U	JO	0.0138	0.0273	1	01/22/2019 13:27	WG1226460
2-Hexanone	U		0.0109	0.0273	1	01/22/2019 13:27	WG1226460
n-Hexane	0.00778	B	0.00116	0.00545	1	01/22/2019 13:27	WG1226460



Collected date/time: 01/16/19 08:55

L1062820

Volatile Organic Compounds (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		0.00660	0.0136	1	01/22/2019 13:27	WG1226460
Isopropylbenzene	U		0.000941	0.00273	1	01/22/2019 13:27	WG1226460
p-Isopropyltoluene	U		0.00254	0.00545	1	01/22/2019 13:27	WG1226460
2-Butanone (MEK)	0.0206	J	0.0136	0.0273	1	01/22/2019 13:27	WG1226460
Methylene Chloride	U		0.00724	0.0273	1	01/22/2019 13:27	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	01/22/2019 13:27	WG1226460
Methyl tert-butyl ether	U		0.000322	0.00109	1	01/22/2019 13:27	WG1226460
Naphthalene	U		0.00340	0.0136	1	01/25/2019 23:26	WG1228513
n-Propylbenzene	U		0.00129	0.00545	1	01/25/2019 23:26	WG1228513
Styrene	U		0.00298	0.0136	1	01/22/2019 13:27	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000545	0.00273	1	01/22/2019 13:27	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000425	0.00273	1	01/25/2019 23:26	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.000736	0.00273	1	01/22/2019 13:27	WG1226460
Tetrachloroethene	0.0133		0.000763	0.00273	1	01/22/2019 13:27	WG1226460
Toluene	0.00144	J	0.00136	0.00545	1	01/22/2019 13:27	WG1226460
1,2,3-Trichlorobenzene	U		0.000681	0.00273	1	01/25/2019 23:26	WG1228513
1,2,4-Trichlorobenzene	U		0.00525	0.0136	1	01/22/2019 13:27	WG1226460
1,1,1-Trichloroethane	U		0.000300	0.00273	1	01/22/2019 13:27	WG1226460
1,1,2-Trichloroethane	U		0.000963	0.00273	1	01/22/2019 13:27	WG1226460
Trichloroethene	U		0.000436	0.00109	1	01/22/2019 13:27	WG1226460
Trichlorofluoromethane	U		0.000545	0.00273	1	01/22/2019 13:27	WG1226460
1,2,3-Trichloropropane	U		0.00556	0.0136	1	01/22/2019 13:27	WG1226460
1,2,4-Trimethylbenzene	U		0.00126	0.00545	1	01/22/2019 13:27	WG1226460
1,2,3-Trimethylbenzene	U	JO J4	0.00125	0.00545	1	01/22/2019 13:27	WG1226460
1,3,5-Trimethylbenzene	U		0.00118	0.00545	1	01/22/2019 13:27	WG1226460
Vinyl acetate	U	J4	0.00384	0.0136	1	01/22/2019 13:27	WG1226460
Vinyl chloride	U		0.000745	0.00273	1	01/22/2019 13:27	WG1226460
Xylenes, Total	U		0.00521	0.00709	1	01/22/2019 13:27	WG1226460
(S) Toluene-d8	107			75.0-131		01/22/2019 13:27	WG1226460
(S) Toluene-d8	113			75.0-131		01/25/2019 23:26	WG1228513
(S) Dibromofluoromethane	86.9			65.0-129		01/22/2019 13:27	WG1226460
(S) Dibromofluoromethane	82.2			65.0-129		01/25/2019 23:26	WG1228513
(S) a,a,a-Trifluorotoluene	96.1			80.0-120		01/22/2019 13:27	WG1226460
(S) a,a,a-Trifluorotoluene	106			80.0-120		01/25/2019 23:26	WG1228513
(S) 4-Bromofluorobenzene	95.1			67.0-138		01/22/2019 13:27	WG1226460
(S) 4-Bromofluorobenzene	104			67.0-138		01/25/2019 23:26	WG1228513

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	71.8		1	01/22/2019 13:06	WG1226664

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

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	4.28		1.18	3.48	25	01/22/2019 07:52	WG1226427
(S) a,a,a-Trifluorotoluene(FID)	94.4			77.0-120		01/22/2019 07:52	WG1226427

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0191	0.0348	1	01/22/2019 13:49	WG1226460
Acrylonitrile	U		0.00265	0.0174	1	01/22/2019 13:49	WG1226460
Benzene	0.0111		0.000557	0.00139	1	01/22/2019 13:49	WG1226460
Bromobenzene	U		0.00146	0.0174	1	01/22/2019 13:49	WG1226460
Bromodichloromethane	U		0.00110	0.00348	1	01/22/2019 13:49	WG1226460
Bromochloromethane	U		0.00157	0.00696	1	01/22/2019 13:49	WG1226460
Bromoform	U		0.00833	0.0348	1	01/22/2019 13:49	WG1226460
Bromomethane	U		0.00515	0.0174	1	01/22/2019 13:49	WG1226460
n-Butylbenzene	U		0.00535	0.0174	1	01/22/2019 13:49	WG1226460
sec-Butylbenzene	U		0.00352	0.0174	1	01/22/2019 13:49	WG1226460
tert-Butylbenzene	U		0.00216	0.00696	1	01/22/2019 13:49	WG1226460
Carbon disulfide	U		0.00565	0.0174	1	01/22/2019 13:49	WG1226460
Carbon tetrachloride	U		0.00150	0.00696	1	01/22/2019 13:49	WG1226460
Chlorobenzene	U		0.000798	0.00348	1	01/22/2019 13:49	WG1226460
Chlorodibromomethane	U		0.000627	0.00348	1	01/22/2019 13:49	WG1226460
Chloroethane	U		0.00150	0.00696	1	01/22/2019 13:49	WG1226460
Chloroform	U		0.000578	0.00348	1	01/22/2019 13:49	WG1226460
Chloromethane	U		0.00194	0.0174	1	01/22/2019 13:49	WG1226460
2-Chlorotoluene	U		0.00128	0.00348	1	01/22/2019 13:49	WG1226460
4-Chlorotoluene	U		0.00157	0.00696	1	01/22/2019 13:49	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00710	0.0348	1	01/25/2019 23:46	WG1228513
1,2-Dibromoethane	U		0.000731	0.00348	1	01/22/2019 13:49	WG1226460
Dibromomethane	U		0.00139	0.00696	1	01/22/2019 13:49	WG1226460
1,2-Dichlorobenzene	U		0.00202	0.00696	1	01/22/2019 13:49	WG1226460
1,3-Dichlorobenzene	U		0.00237	0.00696	1	01/22/2019 13:49	WG1226460
1,4-Dichlorobenzene	U		0.00274	0.00696	1	01/22/2019 13:49	WG1226460
Dichlorodifluoromethane	U		0.00114	0.00348	1	01/25/2019 23:46	WG1228513
1,1-Dichloroethane	U		0.000801	0.00348	1	01/22/2019 13:49	WG1226460
1,2-Dichloroethane	U		0.000662	0.00348	1	01/22/2019 13:49	WG1226460
1,1-Dichloroethene	U		0.000696	0.00348	1	01/25/2019 23:46	WG1228513
cis-1,2-Dichloroethene	U		0.000961	0.00348	1	01/25/2019 23:46	WG1228513
trans-1,2-Dichloroethene	U		0.00199	0.00696	1	01/22/2019 13:49	WG1226460
1,2-Dichloropropane	U		0.00177	0.00696	1	01/22/2019 13:49	WG1226460
1,1-Dichloropropene	U		0.000975	0.00348	1	01/22/2019 13:49	WG1226460
1,3-Dichloropropane	U		0.00244	0.00696	1	01/22/2019 13:49	WG1226460
cis-1,3-Dichloropropene	U		0.000944	0.00348	1	01/22/2019 13:49	WG1226460
trans-1,3-Dichloropropene	U		0.00213	0.00696	1	01/22/2019 13:49	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00195	0.00696	1	01/25/2019 23:46	WG1228513
2,2-Dichloropropane	U		0.00110	0.00348	1	01/22/2019 13:49	WG1226460
Di-isopropyl ether	U		0.000487	0.00139	1	01/25/2019 23:46	WG1228513
Ethylbenzene	0.00256	J	0.000738	0.00348	1	01/22/2019 13:49	WG1226460
Hexachloro-1,3-butadiene	U	JO	0.0177	0.0348	1	01/22/2019 13:49	WG1226460
2-Hexanone	U		0.0139	0.0348	1	01/22/2019 13:49	WG1226460
n-Hexane	0.0982		0.00148	0.00696	1	01/22/2019 13:49	WG1226460



Collected date/time: 01/16/19 10:10

L1062820

Volatile Organic Compounds (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		0.00843	0.0174	1	01/22/2019 13:49	WG1226460
Isopropylbenzene	0.00398		0.00120	0.00348	1	01/22/2019 13:49	WG1226460
p-Isopropyltoluene	0.0695		0.00325	0.00696	1	01/22/2019 13:49	WG1226460
2-Butanone (MEK)	U		0.0174	0.0348	1	01/22/2019 13:49	WG1226460
Methylene Chloride	U		0.00925	0.0348	1	01/22/2019 13:49	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0139	0.0348	1	01/22/2019 13:49	WG1226460
Methyl tert-butyl ether	U		0.000411	0.00139	1	01/22/2019 13:49	WG1226460
Naphthalene	U		0.00435	0.0174	1	01/25/2019 23:46	WG1228513
n-Propylbenzene	U		0.00164	0.00696	1	01/25/2019 23:46	WG1228513
Styrene	U		0.00380	0.0174	1	01/22/2019 13:49	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000696	0.00348	1	01/22/2019 13:49	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000543	0.00348	1	01/25/2019 23:46	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.000940	0.00348	1	01/22/2019 13:49	WG1226460
Tetrachloroethene	0.180		0.000975	0.00348	1	01/22/2019 13:49	WG1226460
Toluene	0.00424	J	0.00174	0.00696	1	01/22/2019 13:49	WG1226460
1,2,3-Trichlorobenzene	U		0.000870	0.00348	1	01/25/2019 23:46	WG1228513
1,2,4-Trichlorobenzene	U		0.00671	0.0174	1	01/22/2019 13:49	WG1226460
1,1,1-Trichloroethane	U		0.000383	0.00348	1	01/22/2019 13:49	WG1226460
1,1,2-Trichloroethane	U		0.00123	0.00348	1	01/22/2019 13:49	WG1226460
Trichloroethene	U		0.000557	0.00139	1	01/22/2019 13:49	WG1226460
Trichlorofluoromethane	U		0.000696	0.00348	1	01/22/2019 13:49	WG1226460
1,2,3-Trichloropropane	U		0.00710	0.0174	1	01/22/2019 13:49	WG1226460
1,2,4-Trimethylbenzene	0.00413	J	0.00162	0.00696	1	01/22/2019 13:49	WG1226460
1,2,3-Trimethylbenzene	0.00283	J JO J4	0.00160	0.00696	1	01/22/2019 13:49	WG1226460
1,3,5-Trimethylbenzene	0.00618	J	0.00150	0.00696	1	01/22/2019 13:49	WG1226460
Vinyl acetate	U	J4	0.00490	0.0174	1	01/22/2019 13:49	WG1226460
Vinyl chloride	U		0.000951	0.00348	1	01/22/2019 13:49	WG1226460
Xylenes, Total	0.0127		0.00666	0.00905	1	01/22/2019 13:49	WG1226460
(S) Toluene-d8	85.5			75.0-131		01/22/2019 13:49	WG1226460
(S) Toluene-d8	94.3			75.0-131		01/25/2019 23:46	WG1228513
(S) Dibromofluoromethane	85.3			65.0-129		01/22/2019 13:49	WG1226460
(S) Dibromofluoromethane	84.0			65.0-129		01/25/2019 23:46	WG1228513
(S) a,a,a-Trifluorotoluene	96.4			80.0-120		01/22/2019 13:49	WG1226460
(S) a,a,a-Trifluorotoluene	102			80.0-120		01/25/2019 23:46	WG1228513
(S) 4-Bromofluorobenzene	97.4			67.0-138		01/22/2019 13:49	WG1226460
(S) 4-Bromofluorobenzene	104			67.0-138		01/25/2019 23:46	WG1228513

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	01/22/2019 13:06	WG1226664

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

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		0.904	2.67	25	01/22/2019 08:16	WG1226427
(S) a,a,a-Trifluorotoluene(FID)	94.6			77.0-120		01/22/2019 08:16	WG1226427

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0146	0.0267	1	01/22/2019 14:12	WG1226460
Acrylonitrile	U		0.00203	0.0133	1	01/22/2019 14:12	WG1226460
Benzene	U		0.000427	0.00107	1	01/22/2019 14:12	WG1226460
Bromobenzene	U		0.00112	0.0133	1	01/22/2019 14:12	WG1226460
Bromodichloromethane	U		0.000840	0.00267	1	01/22/2019 14:12	WG1226460
Bromochloromethane	U		0.00121	0.00533	1	01/22/2019 14:12	WG1226460
Bromoform	U		0.00638	0.0267	1	01/22/2019 14:12	WG1226460
Bromomethane	U		0.00395	0.0133	1	01/22/2019 14:12	WG1226460
n-Butylbenzene	U		0.00409	0.0133	1	01/22/2019 14:12	WG1226460
sec-Butylbenzene	U		0.00270	0.0133	1	01/22/2019 14:12	WG1226460
tert-Butylbenzene	U		0.00165	0.00533	1	01/22/2019 14:12	WG1226460
Carbon disulfide	U		0.00433	0.0133	1	01/22/2019 14:12	WG1226460
Carbon tetrachloride	U		0.00115	0.00533	1	01/22/2019 14:12	WG1226460
Chlorobenzene	U		0.000611	0.00267	1	01/22/2019 14:12	WG1226460
Chlorodibromomethane	U		0.000480	0.00267	1	01/22/2019 14:12	WG1226460
Chloroethane	U		0.00115	0.00533	1	01/22/2019 14:12	WG1226460
Chloroform	U		0.000443	0.00267	1	01/22/2019 14:12	WG1226460
Chloromethane	U		0.00148	0.0133	1	01/22/2019 14:12	WG1226460
2-Chlorotoluene	U		0.000981	0.00267	1	01/22/2019 14:12	WG1226460
4-Chlorotoluene	U		0.00121	0.00533	1	01/22/2019 14:12	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00544	0.0267	1	01/26/2019 00:07	WG1228513
1,2-Dibromoethane	U		0.000560	0.00267	1	01/22/2019 14:12	WG1226460
Dibromomethane	U		0.00107	0.00533	1	01/22/2019 14:12	WG1226460
1,2-Dichlorobenzene	U		0.00155	0.00533	1	01/22/2019 14:12	WG1226460
1,3-Dichlorobenzene	U		0.00181	0.00533	1	01/22/2019 14:12	WG1226460
1,4-Dichlorobenzene	U		0.00210	0.00533	1	01/22/2019 14:12	WG1226460
Dichlorodifluoromethane	U		0.000872	0.00267	1	01/26/2019 00:07	WG1228513
1,1-Dichloroethane	U		0.000613	0.00267	1	01/22/2019 14:12	WG1226460
1,2-Dichloroethane	U		0.000507	0.00267	1	01/22/2019 14:12	WG1226460
1,1-Dichloroethene	U		0.000533	0.00267	1	01/26/2019 00:07	WG1228513
cis-1,2-Dichloroethene	U		0.000736	0.00267	1	01/26/2019 00:07	WG1228513
trans-1,2-Dichloroethene	U		0.00152	0.00533	1	01/22/2019 14:12	WG1226460
1,2-Dichloropropane	U		0.00135	0.00533	1	01/22/2019 14:12	WG1226460
1,1-Dichloropropene	U		0.000746	0.00267	1	01/22/2019 14:12	WG1226460
1,3-Dichloropropane	U		0.00187	0.00533	1	01/22/2019 14:12	WG1226460
cis-1,3-Dichloropropene	U		0.000723	0.00267	1	01/22/2019 14:12	WG1226460
trans-1,3-Dichloropropene	U		0.00163	0.00533	1	01/22/2019 14:12	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00149	0.00533	1	01/26/2019 00:07	WG1228513
2,2-Dichloropropane	U		0.000846	0.00267	1	01/22/2019 14:12	WG1226460
Di-isopropyl ether	U		0.000373	0.00107	1	01/26/2019 00:07	WG1228513
Ethylbenzene	U		0.000565	0.00267	1	01/22/2019 14:12	WG1226460
Hexachloro-1,3-butadiene	U	JO	0.0135	0.0267	1	01/22/2019 14:12	WG1226460
2-Hexanone	U		0.0107	0.0267	1	01/22/2019 14:12	WG1226460
n-Hexane	0.00684	B	0.00113	0.00533	1	01/22/2019 14:12	WG1226460



Collected date/time: 01/16/19 14:35

L1062820

Volatile Organic Compounds (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		0.00645	0.0133	1	01/22/2019 14:12	WG1226460
Isopropylbenzene	U		0.000920	0.00267	1	01/22/2019 14:12	WG1226460
p-Isopropyltoluene	U		0.00248	0.00533	1	01/22/2019 14:12	WG1226460
2-Butanone (MEK)	0.0194	J	0.0133	0.0267	1	01/22/2019 14:12	WG1226460
Methylene Chloride	U		0.00708	0.0267	1	01/22/2019 14:12	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0267	1	01/22/2019 14:12	WG1226460
Methyl tert-butyl ether	U		0.000315	0.00107	1	01/22/2019 14:12	WG1226460
Naphthalene	U		0.00333	0.0133	1	01/26/2019 00:07	WG1228513
n-Propylbenzene	U		0.00126	0.00533	1	01/22/2019 14:12	WG1226460
Styrene	U		0.00291	0.0133	1	01/22/2019 14:12	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000533	0.00267	1	01/22/2019 14:12	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000416	0.00267	1	01/26/2019 00:07	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.000720	0.00267	1	01/22/2019 14:12	WG1226460
Tetrachloroethene	0.00790		0.000746	0.00267	1	01/22/2019 14:12	WG1226460
Toluene	0.00283	J	0.00133	0.00533	1	01/22/2019 14:12	WG1226460
1,2,3-Trichlorobenzene	U		0.000666	0.00267	1	01/26/2019 00:07	WG1228513
1,2,4-Trichlorobenzene	U		0.00514	0.0133	1	01/22/2019 14:12	WG1226460
1,1,1-Trichloroethane	U		0.000293	0.00267	1	01/22/2019 14:12	WG1226460
1,1,2-Trichloroethane	U		0.000942	0.00267	1	01/22/2019 14:12	WG1226460
Trichloroethene	0.000766	J	0.000427	0.00107	1	01/22/2019 14:12	WG1226460
Trichlorofluoromethane	U		0.000533	0.00267	1	01/22/2019 14:12	WG1226460
1,2,3-Trichloropropane	U		0.00544	0.0133	1	01/22/2019 14:12	WG1226460
1,2,4-Trimethylbenzene	U		0.00124	0.00533	1	01/22/2019 14:12	WG1226460
1,2,3-Trimethylbenzene	U	JO J4	0.00123	0.00533	1	01/22/2019 14:12	WG1226460
1,3,5-Trimethylbenzene	U		0.00115	0.00533	1	01/22/2019 14:12	WG1226460
Vinyl acetate	U	J4	0.00375	0.0133	1	01/22/2019 14:12	WG1226460
Vinyl chloride	U		0.000728	0.00267	1	01/22/2019 14:12	WG1226460
Xylenes, Total	U		0.00510	0.00693	1	01/22/2019 14:12	WG1226460
(S) Toluene-d8	108			75.0-131		01/22/2019 14:12	WG1226460
(S) Toluene-d8	111			75.0-131		01/26/2019 00:07	WG1228513
(S) Dibromofluoromethane	86.8			65.0-129		01/22/2019 14:12	WG1226460
(S) Dibromofluoromethane	83.9			65.0-129		01/26/2019 00:07	WG1228513
(S) a,a,a-Trifluorotoluene	100			80.0-120		01/22/2019 14:12	WG1226460
(S) a,a,a-Trifluorotoluene	105			80.0-120		01/26/2019 00:07	WG1228513
(S) 4-Bromofluorobenzene	95.2			67.0-138		01/22/2019 14:12	WG1226460
(S) 4-Bromofluorobenzene	105			67.0-138		01/26/2019 00:07	WG1228513

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	87.2		1	01/22/2019 13:06	WG1226664

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

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		0.973	2.87	25	01/22/2019 08:40	WG1226427
(S) a,a,a-Trifluorotoluene(FID)	94.2			77.0-120		01/22/2019 08:40	WG1226427

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0157	0.0287	1	01/22/2019 14:34	WG1226460
Acrylonitrile	U		0.00218	0.0143	1	01/22/2019 14:34	WG1226460
Benzene	U		0.000459	0.00115	1	01/22/2019 14:34	WG1226460
Bromobenzene	U		0.00120	0.0143	1	01/22/2019 14:34	WG1226460
Bromodichloromethane	U		0.000904	0.00287	1	01/22/2019 14:34	WG1226460
Bromochloromethane	U		0.00130	0.00574	1	01/22/2019 14:34	WG1226460
Bromoform	U		0.00686	0.0287	1	01/22/2019 14:34	WG1226460
Bromomethane	U		0.00424	0.0143	1	01/22/2019 14:34	WG1226460
n-Butylbenzene	U		0.00441	0.0143	1	01/22/2019 14:34	WG1226460
sec-Butylbenzene	U		0.00290	0.0143	1	01/22/2019 14:34	WG1226460
tert-Butylbenzene	U		0.00178	0.00574	1	01/22/2019 14:34	WG1226460
Carbon disulfide	U		0.00466	0.0143	1	01/22/2019 14:34	WG1226460
Carbon tetrachloride	U		0.00124	0.00574	1	01/22/2019 14:34	WG1226460
Chlorobenzene	U		0.000657	0.00287	1	01/22/2019 14:34	WG1226460
Chlorodibromomethane	U		0.000516	0.00287	1	01/22/2019 14:34	WG1226460
Chloroethane	U		0.00124	0.00574	1	01/22/2019 14:34	WG1226460
Chloroform	U		0.000476	0.00287	1	01/22/2019 14:34	WG1226460
Chloromethane	U		0.00159	0.0143	1	01/22/2019 14:34	WG1226460
2-Chlorotoluene	U		0.00106	0.00287	1	01/22/2019 14:34	WG1226460
4-Chlorotoluene	U		0.00130	0.00574	1	01/22/2019 14:34	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00585	0.0287	1	01/26/2019 00:27	WG1228513
1,2-Dibromoethane	U		0.000602	0.00287	1	01/22/2019 14:34	WG1226460
Dibromomethane	U		0.00115	0.00574	1	01/22/2019 14:34	WG1226460
1,2-Dichlorobenzene	U		0.00166	0.00574	1	01/22/2019 14:34	WG1226460
1,3-Dichlorobenzene	U		0.00195	0.00574	1	01/22/2019 14:34	WG1226460
1,4-Dichlorobenzene	U		0.00226	0.00574	1	01/22/2019 14:34	WG1226460
Dichlorodifluoromethane	U		0.000938	0.00287	1	01/26/2019 00:27	WG1228513
1,1-Dichloroethane	U		0.000660	0.00287	1	01/22/2019 14:34	WG1226460
1,2-Dichloroethane	U		0.000545	0.00287	1	01/22/2019 14:34	WG1226460
1,1-Dichloroethene	U		0.000574	0.00287	1	01/26/2019 00:27	WG1228513
cis-1,2-Dichloroethene	0.00343		0.000792	0.00287	1	01/26/2019 00:27	WG1228513
trans-1,2-Dichloroethene	U		0.00164	0.00574	1	01/22/2019 14:34	WG1226460
1,2-Dichloropropane	U		0.00146	0.00574	1	01/22/2019 14:34	WG1226460
1,1-Dichloropropene	U		0.000803	0.00287	1	01/22/2019 14:34	WG1226460
1,3-Dichloropropane	U		0.00201	0.00574	1	01/22/2019 14:34	WG1226460
cis-1,3-Dichloropropene	U		0.000778	0.00287	1	01/22/2019 14:34	WG1226460
trans-1,3-Dichloropropene	U		0.00176	0.00574	1	01/22/2019 14:34	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00161	0.00574	1	01/26/2019 00:27	WG1228513
2,2-Dichloropropane	U		0.000910	0.00287	1	01/22/2019 14:34	WG1226460
Di-isopropyl ether	U		0.000401	0.00115	1	01/26/2019 00:27	WG1228513
Ethylbenzene	0.00140	J	0.000608	0.00287	1	01/22/2019 14:34	WG1226460
Hexachloro-1,3-butadiene	U	JO	0.0146	0.0287	1	01/22/2019 14:34	WG1226460
2-Hexanone	U		0.0115	0.0287	1	01/22/2019 14:34	WG1226460
n-Hexane	0.116		0.00122	0.00574	1	01/22/2019 14:34	WG1226460



Collected date/time: 01/16/19 14:50

L1062820

Volatile Organic Compounds (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		0.00694	0.0143	1	01/22/2019 14:34	WG1226460
Isopropylbenzene	U		0.000990	0.00287	1	01/22/2019 14:34	WG1226460
p-Isopropyltoluene	U		0.00267	0.00574	1	01/22/2019 14:34	WG1226460
2-Butanone (MEK)	U		0.0143	0.0287	1	01/22/2019 14:34	WG1226460
Methylene Chloride	U		0.00762	0.0287	1	01/22/2019 14:34	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0287	1	01/22/2019 14:34	WG1226460
Methyl tert-butyl ether	U		0.000338	0.00115	1	01/22/2019 14:34	WG1226460
Naphthalene	U		0.00358	0.0143	1	01/26/2019 00:27	WG1228513
n-Propylbenzene	U		0.00135	0.00574	1	01/22/2019 14:34	WG1226460
Styrene	U		0.00313	0.0143	1	01/22/2019 14:34	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000574	0.00287	1	01/22/2019 14:34	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000447	0.00287	1	01/26/2019 00:27	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.000774	0.00287	1	01/22/2019 14:34	WG1226460
Tetrachloroethene	0.160		0.000803	0.00287	1	01/22/2019 14:34	WG1226460
Toluene	0.00350	J	0.00143	0.00574	1	01/22/2019 14:34	WG1226460
1,2,3-Trichlorobenzene	U		0.000717	0.00287	1	01/26/2019 00:27	WG1228513
1,2,4-Trichlorobenzene	U		0.00553	0.0143	1	01/22/2019 14:34	WG1226460
1,1,1-Trichloroethane	U		0.000315	0.00287	1	01/22/2019 14:34	WG1226460
1,1,2-Trichloroethane	U		0.00101	0.00287	1	01/22/2019 14:34	WG1226460
Trichloroethene	0.0214		0.000459	0.00115	1	01/22/2019 14:34	WG1226460
Trichlorofluoromethane	U		0.000574	0.00287	1	01/22/2019 14:34	WG1226460
1,2,3-Trichloropropane	U		0.00585	0.0143	1	01/22/2019 14:34	WG1226460
1,2,4-Trimethylbenzene	0.00472	J	0.00133	0.00574	1	01/22/2019 14:34	WG1226460
1,2,3-Trimethylbenzene	0.00263	J JO J4	0.00132	0.00574	1	01/22/2019 14:34	WG1226460
1,3,5-Trimethylbenzene	0.00135	J	0.00124	0.00574	1	01/22/2019 14:34	WG1226460
Vinyl acetate	U	J4	0.00404	0.0143	1	01/22/2019 14:34	WG1226460
Vinyl chloride	U		0.000783	0.00287	1	01/22/2019 14:34	WG1226460
Xylenes, Total	U		0.00548	0.00746	1	01/22/2019 14:34	WG1226460
(S) Toluene-d8	100			75.0-131		01/22/2019 14:34	WG1226460
(S) Toluene-d8	107			75.0-131		01/26/2019 00:27	WG1228513
(S) Dibromofluoromethane	84.6			65.0-129		01/22/2019 14:34	WG1226460
(S) Dibromofluoromethane	88.1			65.0-129		01/26/2019 00:27	WG1228513
(S) a,a,a-Trifluorotoluene	98.7			80.0-120		01/22/2019 14:34	WG1226460
(S) a,a,a-Trifluorotoluene	105			80.0-120		01/26/2019 00:27	WG1228513
(S) 4-Bromofluorobenzene	94.7			67.0-138		01/22/2019 14:34	WG1226460
(S) 4-Bromofluorobenzene	104			67.0-138		01/26/2019 00:27	WG1228513

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

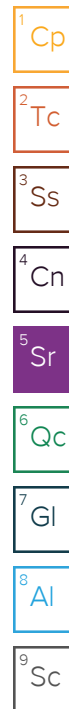
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	63.5		1	01/22/2019 13:06	WG1226664

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	12.9		1.70	5.00	31.75	01/22/2019 09:05	WG1226427
(S) a,a,a-Trifluorotoluene(FID)	93.8			77.0-120		01/22/2019 09:05	WG1226427

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0274	0.0500	1.27	01/22/2019 14:56	WG1226460
Acrylonitrile	U		0.00380	0.0250	1.27	01/22/2019 14:56	WG1226460
Benzene	0.00540		0.000800	0.00200	1.27	01/22/2019 14:56	WG1226460
Bromobenzene	U		0.00210	0.0250	1.27	01/22/2019 14:56	WG1226460
Bromodichloromethane	U		0.00158	0.00500	1.27	01/22/2019 14:56	WG1226460
Bromochloromethane	U		0.00227	0.0100	1.27	01/22/2019 14:56	WG1226460
Bromoform	U		0.0120	0.0500	1.27	01/22/2019 14:56	WG1226460
Bromomethane	U		0.00741	0.0250	1.27	01/22/2019 14:56	WG1226460
n-Butylbenzene	U		0.00769	0.0250	1.27	01/22/2019 14:56	WG1226460
sec-Butylbenzene	U		0.00506	0.0250	1.27	01/22/2019 14:56	WG1226460
tert-Butylbenzene	U		0.00310	0.0100	1.27	01/22/2019 14:56	WG1226460
Carbon disulfide	U		0.00813	0.0250	1.27	01/22/2019 14:56	WG1226460
Carbon tetrachloride	U		0.00216	0.0100	1.27	01/22/2019 14:56	WG1226460
Chlorobenzene	U		0.00115	0.00500	1.27	01/22/2019 14:56	WG1226460
Chlorodibromomethane	U		0.000901	0.00500	1.27	01/22/2019 14:56	WG1226460
Chloroethane	U		0.00216	0.0100	1.27	01/22/2019 14:56	WG1226460
Chloroform	U		0.000830	0.00500	1.27	01/22/2019 14:56	WG1226460
Chloromethane	U		0.00277	0.0250	1.27	01/22/2019 14:56	WG1226460
2-Chlorotoluene	U		0.00184	0.00500	1.27	01/22/2019 14:56	WG1226460
4-Chlorotoluene	U		0.00227	0.0100	1.27	01/22/2019 14:56	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.0102	0.0500	1.27	01/26/2019 00:47	WG1228513
1,2-Dibromoethane	U		0.00105	0.00500	1.27	01/22/2019 14:56	WG1226460
Dibromomethane	U		0.00200	0.0100	1.27	01/22/2019 14:56	WG1226460
1,2-Dichlorobenzene	U		0.00290	0.0100	1.27	01/22/2019 14:56	WG1226460
1,3-Dichlorobenzene	U		0.00340	0.0100	1.27	01/22/2019 14:56	WG1226460
1,4-Dichlorobenzene	U		0.00394	0.0100	1.27	01/22/2019 14:56	WG1226460
Dichlorodifluoromethane	U		0.00164	0.00500	1.27	01/26/2019 00:47	WG1228513
1,1-Dichloroethane	U		0.00115	0.00500	1.27	01/22/2019 14:56	WG1226460
1,2-Dichloroethane	U		0.000950	0.00500	1.27	01/22/2019 14:56	WG1226460
1,1-Dichloroethene	U		0.00100	0.00500	1.27	01/26/2019 00:47	WG1228513
cis-1,2-Dichloroethene	0.00948		0.00138	0.00500	1.27	01/26/2019 00:47	WG1228513
trans-1,2-Dichloroethene	U		0.00287	0.0100	1.27	01/22/2019 14:56	WG1226460
1,2-Dichloropropane	U		0.00254	0.0100	1.27	01/22/2019 14:56	WG1226460
1,1-Dichloropropene	U		0.00140	0.00500	1.27	01/22/2019 14:56	WG1226460
1,3-Dichloropropane	U		0.00350	0.0100	1.27	01/22/2019 14:56	WG1226460
cis-1,3-Dichloropropene	U		0.00136	0.00500	1.27	01/22/2019 14:56	WG1226460
trans-1,3-Dichloropropene	U		0.00306	0.0100	1.27	01/22/2019 14:56	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00280	0.0100	1.27	01/26/2019 00:47	WG1228513
2,2-Dichloropropane	U		0.00159	0.00500	1.27	01/22/2019 14:56	WG1226460
Di-isopropyl ether	U		0.000700	0.00200	1.27	01/26/2019 00:47	WG1228513
Ethylbenzene	0.00311	J	0.00106	0.00500	1.27	01/22/2019 14:56	WG1226460
Hexachloro-1,3-butadiene	U	JO	0.0254	0.0500	1.27	01/22/2019 14:56	WG1226460
2-Hexanone	U		0.0200	0.0500	1.27	01/22/2019 14:56	WG1226460
n-Hexane	0.269		0.00213	0.0100	1.27	01/22/2019 14:56	WG1226460





Collected date/time: 01/16/19 15:05

L1062820

Volatile Organic Compounds (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		0.0121	0.0250	1.27	01/22/2019 14:56	WG1226460
Isopropylbenzene	U		0.00173	0.00500	1.27	01/22/2019 14:56	WG1226460
p-Isopropyltoluene	0.0289		0.00466	0.0100	1.27	01/22/2019 14:56	WG1226460
2-Butanone (MEK)	U		0.0251	0.0500	1.27	01/22/2019 14:56	WG1226460
Methylene Chloride	U		0.0133	0.0500	1.27	01/22/2019 14:56	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0200	0.0500	1.27	01/22/2019 14:56	WG1226460
Methyl tert-butyl ether	U		0.000591	0.00200	1.27	01/22/2019 14:56	WG1226460
Naphthalene	U		0.00624	0.0250	1.27	01/26/2019 00:47	WG1228513
n-Propylbenzene	U		0.00236	0.0100	1.27	01/22/2019 14:56	WG1226460
Styrene	U		0.00547	0.0250	1.27	01/22/2019 14:56	WG1226460
1,1,1,2-Tetrachloroethane	U		0.00100	0.00500	1.27	01/22/2019 14:56	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000780	0.00500	1.27	01/26/2019 00:47	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.00135	0.00500	1.27	01/22/2019 14:56	WG1226460
Tetrachloroethene	0.149		0.00140	0.00500	1.27	01/22/2019 14:56	WG1226460
Toluene	0.0380		0.00251	0.0100	1.27	01/22/2019 14:56	WG1226460
1,2,3-Trichlorobenzene	U		0.00125	0.00500	1.27	01/26/2019 00:47	WG1228513
1,2,4-Trichlorobenzene	U		0.00964	0.0250	1.27	01/22/2019 14:56	WG1226460
1,1,1-Trichloroethane	U		0.000550	0.00500	1.27	01/22/2019 14:56	WG1226460
1,1,2-Trichloroethane	U		0.00176	0.00500	1.27	01/22/2019 14:56	WG1226460
Trichloroethene	0.0396		0.000800	0.00200	1.27	01/22/2019 14:56	WG1226460
Trichlorofluoromethane	U		0.00100	0.00500	1.27	01/22/2019 14:56	WG1226460
1,2,3-Trichloropropane	U		0.0102	0.0250	1.27	01/22/2019 14:56	WG1226460
1,2,4-Trimethylbenzene	0.00457	J	0.00232	0.0100	1.27	01/22/2019 14:56	WG1226460
1,2,3-Trimethylbenzene	0.00354	J JO J4	0.00230	0.0100	1.27	01/22/2019 14:56	WG1226460
1,3,5-Trimethylbenzene	U		0.00216	0.0100	1.27	01/22/2019 14:56	WG1226460
Vinyl acetate	U	J4	0.00704	0.0250	1.27	01/22/2019 14:56	WG1226460
Vinyl chloride	U		0.00137	0.00500	1.27	01/22/2019 14:56	WG1226460
Xylenes, Total	0.0142		0.00956	0.0130	1.27	01/22/2019 14:56	WG1226460
(S) Toluene-d8	108			75.0-131		01/22/2019 14:56	WG1226460
(S) Toluene-d8	108			75.0-131		01/26/2019 00:47	WG1228513
(S) Dibromofluoromethane	87.7			65.0-129		01/22/2019 14:56	WG1226460
(S) Dibromofluoromethane	86.2			65.0-129		01/26/2019 00:47	WG1228513
(S) a,a,a-Trifluorotoluene	98.3			80.0-120		01/22/2019 14:56	WG1226460
(S) a,a,a-Trifluorotoluene	108			80.0-120		01/26/2019 00:47	WG1228513
(S) 4-Bromofluorobenzene	93.6			67.0-138		01/22/2019 14:56	WG1226460
(S) 4-Bromofluorobenzene	104			67.0-138		01/26/2019 00:47	WG1228513

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	88.4		1	01/23/2019 12:49	WG1226762

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0155	0.0283	1	01/22/2019 15:19	WG1226460
Acrylonitrile	U		0.00215	0.0141	1	01/22/2019 15:19	WG1226460
Benzene	U		0.000453	0.00113	1	01/22/2019 15:19	WG1226460
Bromobenzene	U		0.00119	0.0141	1	01/22/2019 15:19	WG1226460
Bromodichloromethane	U		0.000891	0.00283	1	01/22/2019 15:19	WG1226460
Bromochloromethane	U		0.00128	0.00566	1	01/22/2019 15:19	WG1226460
Bromoform	U		0.00677	0.0283	1	01/22/2019 15:19	WG1226460
Bromomethane	U		0.00419	0.0141	1	01/22/2019 15:19	WG1226460
n-Butylbenzene	U		0.00434	0.0141	1	01/22/2019 15:19	WG1226460
sec-Butylbenzene	U		0.00286	0.0141	1	01/22/2019 15:19	WG1226460
tert-Butylbenzene	U		0.00175	0.00566	1	01/22/2019 15:19	WG1226460
Carbon disulfide	U		0.00459	0.0141	1	01/22/2019 15:19	WG1226460
Carbon tetrachloride	U		0.00122	0.00566	1	01/22/2019 15:19	WG1226460
Chlorobenzene	U		0.000648	0.00283	1	01/22/2019 15:19	WG1226460
Chlorodibromomethane	U		0.000509	0.00283	1	01/22/2019 15:19	WG1226460
Chloroethane	U		0.00122	0.00566	1	01/22/2019 15:19	WG1226460
Chloroform	U		0.000470	0.00283	1	01/22/2019 15:19	WG1226460
Chloromethane	U		0.00157	0.0141	1	01/22/2019 15:19	WG1226460
2-Chlorotoluene	U		0.00104	0.00283	1	01/22/2019 15:19	WG1226460
4-Chlorotoluene	U		0.00128	0.00566	1	01/22/2019 15:19	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00577	0.0283	1	01/26/2019 01:08	WG1228513
1,2-Dibromoethane	U		0.000594	0.00283	1	01/22/2019 15:19	WG1226460
Dibromomethane	U		0.00113	0.00566	1	01/22/2019 15:19	WG1226460
1,2-Dichlorobenzene	U		0.00164	0.00566	1	01/22/2019 15:19	WG1226460
1,3-Dichlorobenzene	U		0.00192	0.00566	1	01/22/2019 15:19	WG1226460
1,4-Dichlorobenzene	U		0.00223	0.00566	1	01/22/2019 15:19	WG1226460
Dichlorodifluoromethane	U		0.000925	0.00283	1	01/26/2019 01:08	WG1228513
1,1-Dichloroethane	U		0.000651	0.00283	1	01/22/2019 15:19	WG1226460
1,2-Dichloroethane	U		0.000537	0.00283	1	01/22/2019 15:19	WG1226460
1,1-Dichloroethene	U		0.000566	0.00283	1	01/26/2019 01:08	WG1228513
cis-1,2-Dichloroethene	U		0.000781	0.00283	1	01/26/2019 01:08	WG1228513
trans-1,2-Dichloroethene	U		0.00162	0.00566	1	01/22/2019 15:19	WG1226460
1,2-Dichloropropane	U		0.00144	0.00566	1	01/22/2019 15:19	WG1226460
1,1-Dichloropropene	U		0.000792	0.00283	1	01/22/2019 15:19	WG1226460
1,3-Dichloropropane	U		0.00198	0.00566	1	01/22/2019 15:19	WG1226460
cis-1,3-Dichloropropene	U		0.000767	0.00283	1	01/22/2019 15:19	WG1226460
trans-1,3-Dichloropropene	U		0.00173	0.00566	1	01/22/2019 15:19	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00158	0.00566	1	01/26/2019 01:08	WG1228513
2,2-Dichloropropane	U		0.000897	0.00283	1	01/22/2019 15:19	WG1226460
Di-isopropyl ether	U		0.000396	0.00113	1	01/26/2019 01:08	WG1228513
Ethylbenzene	U		0.000600	0.00283	1	01/22/2019 15:19	WG1226460
Hexachloro-1,3-butadiene	U	JO	0.0144	0.0283	1	01/22/2019 15:19	WG1226460
2-Hexanone	U		0.0113	0.0283	1	01/22/2019 15:19	WG1226460
n-Hexane	0.00346	B J	0.00120	0.00566	1	01/22/2019 15:19	WG1226460
Iodomethane	U		0.00684	0.0141	1	01/22/2019 15:19	WG1226460
Isopropylbenzene	U		0.000976	0.00283	1	01/22/2019 15:19	WG1226460
p-Isopropyltoluene	U		0.00264	0.00566	1	01/22/2019 15:19	WG1226460
2-Butanone (MEK)	0.0388		0.0141	0.0283	1	01/22/2019 15:19	WG1226460
Methylene Chloride	U		0.00751	0.0283	1	01/22/2019 15:19	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	01/22/2019 15:19	WG1226460

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/17/19 08:25

L1062820

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000334	0.00113	1	01/22/2019 15:19	WG1226460
Naphthalene	U		0.00353	0.0141	1	01/26/2019 01:08	WG1228513
n-Propylbenzene	U		0.00133	0.00566	1	01/22/2019 15:19	WG1226460
Styrene	U		0.00309	0.0141	1	01/22/2019 15:19	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000566	0.00283	1	01/22/2019 15:19	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000441	0.00283	1	01/26/2019 01:08	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.000764	0.00283	1	01/22/2019 15:19	WG1226460
Tetrachloroethene	U		0.000792	0.00283	1	01/22/2019 15:19	WG1226460
Toluene	U		0.00141	0.00566	1	01/22/2019 15:19	WG1226460
1,2,3-Trichlorobenzene	U		0.000707	0.00283	1	01/26/2019 01:08	WG1228513
1,2,4-Trichlorobenzene	U		0.00545	0.0141	1	01/22/2019 15:19	WG1226460
1,1,1-Trichloroethane	U		0.000311	0.00283	1	01/22/2019 15:19	WG1226460
1,1,2-Trichloroethane	U		0.000999	0.00283	1	01/22/2019 15:19	WG1226460
Trichloroethene	U		0.000453	0.00113	1	01/22/2019 15:19	WG1226460
Trichlorofluoromethane	U		0.000566	0.00283	1	01/22/2019 15:19	WG1226460
1,2,3-Trichloropropane	U		0.00577	0.0141	1	01/22/2019 15:19	WG1226460
1,2,4-Trimethylbenzene	U		0.00131	0.00566	1	01/22/2019 15:19	WG1226460
1,2,3-Trimethylbenzene	U	JO J4	0.00130	0.00566	1	01/22/2019 15:19	WG1226460
1,3,5-Trimethylbenzene	U		0.00122	0.00566	1	01/22/2019 15:19	WG1226460
Vinyl acetate	U	J4	0.00398	0.0141	1	01/22/2019 15:19	WG1226460
Vinyl chloride	U		0.000773	0.00283	1	01/22/2019 15:19	WG1226460
Xylenes, Total	U		0.00541	0.00735	1	01/22/2019 15:19	WG1226460
(S) Toluene-d8	111			75.0-131		01/22/2019 15:19	WG1226460
(S) Toluene-d8	112			75.0-131		01/26/2019 01:08	WG1228513
(S) Dibromofluoromethane	85.7			65.0-129		01/22/2019 15:19	WG1226460
(S) Dibromofluoromethane	83.2			65.0-129		01/26/2019 01:08	WG1228513
(S) a,a,a-Trifluorotoluene	98.9			80.0-120		01/22/2019 15:19	WG1226460
(S) a,a,a-Trifluorotoluene	109			80.0-120		01/26/2019 01:08	WG1228513
(S) 4-Bromofluorobenzene	93.5			67.0-138		01/22/2019 15:19	WG1226460
(S) 4-Bromofluorobenzene	104			67.0-138		01/26/2019 01:08	WG1228513

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	68.0		1	01/23/2019 12:49	WG1226762

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0215	0.0393	1.07	01/22/2019 15:41	WG1226460
Acrylonitrile	U		0.00299	0.0197	1.07	01/22/2019 15:41	WG1226460
Benzene	0.00961		0.000629	0.00157	1.07	01/22/2019 15:41	WG1226460
Bromobenzene	U		0.00165	0.0197	1.07	01/22/2019 15:41	WG1226460
Bromodichloromethane	U		0.00124	0.00393	1.07	01/22/2019 15:41	WG1226460
Bromochloromethane	U		0.00178	0.00787	1.07	01/22/2019 15:41	WG1226460
Bromoform	U		0.00941	0.0393	1.07	01/22/2019 15:41	WG1226460
Bromomethane	U		0.00582	0.0197	1.07	01/22/2019 15:41	WG1226460
n-Butylbenzene	U		0.00604	0.0197	1.07	01/22/2019 15:41	WG1226460
sec-Butylbenzene	U		0.00399	0.0197	1.07	01/22/2019 15:41	WG1226460
tert-Butylbenzene	U		0.00244	0.00787	1.07	01/22/2019 15:41	WG1226460
Carbon disulfide	U		0.00638	0.0197	1.07	01/22/2019 15:41	WG1226460
Carbon tetrachloride	U		0.00171	0.00787	1.07	01/22/2019 15:41	WG1226460
Chlorobenzene	U		0.000901	0.00393	1.07	01/22/2019 15:41	WG1226460
Chlorodibromomethane	U		0.000709	0.00393	1.07	01/22/2019 15:41	WG1226460
Chloroethane	U		0.00171	0.00787	1.07	01/22/2019 15:41	WG1226460
Chloroform	U		0.000653	0.00393	1.07	01/22/2019 15:41	WG1226460
Chloromethane	U		0.00219	0.0197	1.07	01/22/2019 15:41	WG1226460
2-Chlorotoluene	U		0.00145	0.00393	1.07	01/22/2019 15:41	WG1226460
4-Chlorotoluene	U		0.00178	0.00787	1.07	01/22/2019 15:41	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00796	0.0390	1.06	01/26/2019 01:27	WG1228513
1,2-Dibromoethane	U		0.000826	0.00393	1.07	01/22/2019 15:41	WG1226460
Dibromomethane	U		0.00157	0.00787	1.07	01/22/2019 15:41	WG1226460
1,2-Dichlorobenzene	U		0.00228	0.00787	1.07	01/22/2019 15:41	WG1226460
1,3-Dichlorobenzene	U		0.00268	0.00787	1.07	01/22/2019 15:41	WG1226460
1,4-Dichlorobenzene	U		0.00310	0.00787	1.07	01/22/2019 15:41	WG1226460
Dichlorodifluoromethane	U		0.00127	0.00390	1.06	01/26/2019 01:27	WG1228513
1,1-Dichloroethane	U		0.000904	0.00393	1.07	01/22/2019 15:41	WG1226460
1,2-Dichloroethane	U		0.000747	0.00393	1.07	01/22/2019 15:41	WG1226460
1,1-Dichloroethene	U		0.000779	0.00390	1.06	01/26/2019 01:27	WG1228513
cis-1,2-Dichloroethene	0.00697		0.00107	0.00390	1.06	01/26/2019 01:27	WG1228513
trans-1,2-Dichloroethene	U		0.00225	0.00787	1.07	01/22/2019 15:41	WG1226460
1,2-Dichloropropane	U		0.00200	0.00787	1.07	01/22/2019 15:41	WG1226460
1,1-Dichloropropene	U		0.00110	0.00393	1.07	01/22/2019 15:41	WG1226460
1,3-Dichloropropane	U		0.00275	0.00787	1.07	01/22/2019 15:41	WG1226460
cis-1,3-Dichloropropene	U		0.00107	0.00393	1.07	01/22/2019 15:41	WG1226460
trans-1,3-Dichloropropene	U		0.00241	0.00787	1.07	01/22/2019 15:41	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00218	0.00779	1.06	01/26/2019 01:27	WG1228513
2,2-Dichloropropane	U		0.00125	0.00393	1.07	01/22/2019 15:41	WG1226460
Di-isopropyl ether	U		0.000546	0.00156	1.06	01/26/2019 01:27	WG1228513
Ethylbenzene	0.00168	J	0.000834	0.00393	1.07	01/22/2019 15:41	WG1226460
Hexachloro-1,3-butadiene	U	JO	0.0200	0.0393	1.07	01/22/2019 15:41	WG1226460
2-Hexanone	U		0.0157	0.0393	1.07	01/22/2019 15:41	WG1226460
n-Hexane	0.205		0.00166	0.00787	1.07	01/22/2019 15:41	WG1226460
Iodomethane	U		0.00951	0.0197	1.07	01/22/2019 15:41	WG1226460
Isopropylbenzene	U		0.00136	0.00393	1.07	01/22/2019 15:41	WG1226460
p-Isopropyltoluene	0.0100		0.00366	0.00787	1.07	01/22/2019 15:41	WG1226460
2-Butanone (MEK)	0.0763		0.0197	0.0393	1.07	01/22/2019 15:41	WG1226460
Methylene Chloride	U		0.0104	0.0393	1.07	01/22/2019 15:41	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0157	0.0393	1.07	01/22/2019 15:41	WG1226460

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/17/19 09:40

L1062820

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000465	0.00157	1.07	01/22/2019 15:41	WG1226460
Naphthalene	U		0.00487	0.0195	1.06	01/26/2019 01:27	WG1228513
n-Propylbenzene	U		0.00185	0.00787	1.07	01/22/2019 15:41	WG1226460
Styrene	U		0.00429	0.0197	1.07	01/22/2019 15:41	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000787	0.00393	1.07	01/22/2019 15:41	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000607	0.00390	1.06	01/26/2019 01:27	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.00106	0.00393	1.07	01/22/2019 15:41	WG1226460
Tetrachloroethene	0.0605		0.00110	0.00393	1.07	01/22/2019 15:41	WG1226460
Toluene	0.00647	J	0.00197	0.00787	1.07	01/22/2019 15:41	WG1226460
1,2,3-Trichlorobenzene	U		0.000973	0.00390	1.06	01/26/2019 01:27	WG1228513
1,2,4-Trichlorobenzene	U		0.00759	0.0197	1.07	01/22/2019 15:41	WG1226460
1,1,1-Trichloroethane	U		0.000432	0.00393	1.07	01/22/2019 15:41	WG1226460
1,1,2-Trichloroethane	U		0.00139	0.00393	1.07	01/22/2019 15:41	WG1226460
Trichloroethene	0.00337		0.000629	0.00157	1.07	01/22/2019 15:41	WG1226460
Trichlorofluoromethane	U		0.000787	0.00393	1.07	01/22/2019 15:41	WG1226460
1,2,3-Trichloropropane	U		0.00803	0.0197	1.07	01/22/2019 15:41	WG1226460
1,2,4-Trimethylbenzene	0.00312	J	0.00182	0.00787	1.07	01/22/2019 15:41	WG1226460
1,2,3-Trimethylbenzene	0.00254	J JO J4	0.00181	0.00787	1.07	01/22/2019 15:41	WG1226460
1,3,5-Trimethylbenzene	U		0.00171	0.00787	1.07	01/22/2019 15:41	WG1226460
Vinyl acetate	U	J4	0.00554	0.0197	1.07	01/22/2019 15:41	WG1226460
Vinyl chloride	0.00371	J	0.00107	0.00393	1.07	01/22/2019 15:41	WG1226460
Xylenes, Total	0.00818	J	0.00751	0.0102	1.07	01/22/2019 15:41	WG1226460
(S) Toluene-d8	104			75.0-131		01/22/2019 15:41	WG1226460
(S) Toluene-d8	108			75.0-131		01/26/2019 01:27	WG1228513
(S) Dibromofluoromethane	87.5			65.0-129		01/22/2019 15:41	WG1226460
(S) Dibromofluoromethane	85.7			65.0-129		01/26/2019 01:27	WG1228513
(S) a,a,a-Trifluorotoluene	97.1			80.0-120		01/22/2019 15:41	WG1226460
(S) a,a,a-Trifluorotoluene	108			80.0-120		01/26/2019 01:27	WG1228513
(S) 4-Bromofluorobenzene	97.8			67.0-138		01/22/2019 15:41	WG1226460
(S) 4-Bromofluorobenzene	105			67.0-138		01/26/2019 01:27	WG1228513

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	78.7		1	01/23/2019 12:49	WG1226762

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0174	0.0317	1	01/22/2019 16:03	WG1226460
Acrylonitrile	U		0.00241	0.0159	1	01/22/2019 16:03	WG1226460
Benzene	0.00245		0.000508	0.00127	1	01/22/2019 16:03	WG1226460
Bromobenzene	U		0.00133	0.0159	1	01/22/2019 16:03	WG1226460
Bromodichloromethane	U		0.00100	0.00317	1	01/22/2019 16:03	WG1226460
Bromochloromethane	U		0.00144	0.00635	1	01/22/2019 16:03	WG1226460
Bromoform	U		0.00759	0.0317	1	01/22/2019 16:03	WG1226460
Bromomethane	U		0.00470	0.0159	1	01/22/2019 16:03	WG1226460
n-Butylbenzene	U		0.00488	0.0159	1	01/22/2019 16:03	WG1226460
sec-Butylbenzene	U		0.00321	0.0159	1	01/22/2019 16:03	WG1226460
tert-Butylbenzene	U		0.00197	0.00635	1	01/22/2019 16:03	WG1226460
Carbon disulfide	0.00913	J	0.00516	0.0159	1	01/22/2019 16:03	WG1226460
Carbon tetrachloride	U		0.00137	0.00635	1	01/22/2019 16:03	WG1226460
Chlorobenzene	U		0.000728	0.00317	1	01/22/2019 16:03	WG1226460
Chlorodibromomethane	U		0.000571	0.00317	1	01/22/2019 16:03	WG1226460
Chloroethane	U		0.00137	0.00635	1	01/22/2019 16:03	WG1226460
Chloroform	U		0.000527	0.00317	1	01/22/2019 16:03	WG1226460
Chloromethane	U		0.00177	0.0159	1	01/22/2019 16:03	WG1226460
2-Chlorotoluene	U		0.00117	0.00317	1	01/22/2019 16:03	WG1226460
4-Chlorotoluene	U		0.00144	0.00635	1	01/22/2019 16:03	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00648	0.0317	1	01/26/2019 01:48	WG1228513
1,2-Dibromoethane	U		0.000667	0.00317	1	01/22/2019 16:03	WG1226460
Dibromomethane	U		0.00127	0.00635	1	01/22/2019 16:03	WG1226460
1,2-Dichlorobenzene	U		0.00184	0.00635	1	01/22/2019 16:03	WG1226460
1,3-Dichlorobenzene	U		0.00216	0.00635	1	01/22/2019 16:03	WG1226460
1,4-Dichlorobenzene	U		0.00250	0.00635	1	01/22/2019 16:03	WG1226460
Dichlorodifluoromethane	U		0.00104	0.00317	1	01/26/2019 01:48	WG1228513
1,1-Dichloroethane	U		0.000730	0.00317	1	01/22/2019 16:03	WG1226460
1,2-Dichloroethane	U		0.000603	0.00317	1	01/22/2019 16:03	WG1226460
1,1-Dichloroethene	U		0.000635	0.00317	1	01/26/2019 01:48	WG1228513
cis-1,2-Dichloroethene	0.0467		0.000876	0.00317	1	01/26/2019 01:48	WG1228513
trans-1,2-Dichloroethene	0.00429	J	0.00182	0.00635	1	01/22/2019 16:03	WG1226460
1,2-Dichloropropane	U		0.00161	0.00635	1	01/22/2019 16:03	WG1226460
1,1-Dichloropropene	U		0.000889	0.00317	1	01/22/2019 16:03	WG1226460
1,3-Dichloropropane	U		0.00222	0.00635	1	01/22/2019 16:03	WG1226460
cis-1,3-Dichloropropene	U		0.000861	0.00317	1	01/22/2019 16:03	WG1226460
trans-1,3-Dichloropropene	U		0.00194	0.00635	1	01/22/2019 16:03	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00178	0.00635	1	01/26/2019 01:48	WG1228513
2,2-Dichloropropane	U		0.00101	0.00317	1	01/22/2019 16:03	WG1226460
Di-isopropyl ether	U		0.000444	0.00127	1	01/26/2019 01:48	WG1228513
Ethylbenzene	0.00140	J	0.000673	0.00317	1	01/22/2019 16:03	WG1226460
Hexachloro-1,3-butadiene	U	JO	0.0161	0.0317	1	01/22/2019 16:03	WG1226460
2-Hexanone	U		0.0127	0.0317	1	01/22/2019 16:03	WG1226460
n-Hexane	0.122		0.00135	0.00635	1	01/22/2019 16:03	WG1226460
Iodomethane	U		0.00768	0.0159	1	01/22/2019 16:03	WG1226460
Isopropylbenzene	0.00117	J	0.00110	0.00317	1	01/22/2019 16:03	WG1226460
p-Isopropyltoluene	0.00814		0.00296	0.00635	1	01/22/2019 16:03	WG1226460
2-Butanone (MEK)	0.0545		0.0159	0.0317	1	01/22/2019 16:03	WG1226460
Methylene Chloride	U		0.00843	0.0317	1	01/22/2019 16:03	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0127	0.0317	1	01/22/2019 16:03	WG1226460

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/17/19 10:30

L1062820

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000375	0.00127	1	01/22/2019 16:03	WG1226460
Naphthalene	0.00918	J	0.00396	0.0159	1	01/26/2019 01:48	WG1228513
n-Propylbenzene	U		0.00150	0.00635	1	01/22/2019 16:03	WG1226460
Styrene	U		0.00347	0.0159	1	01/22/2019 16:03	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000635	0.00317	1	01/22/2019 16:03	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000495	0.00317	1	01/26/2019 01:48	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.000857	0.00317	1	01/22/2019 16:03	WG1226460
Tetrachloroethene	0.00665		0.000889	0.00317	1	01/22/2019 16:03	WG1226460
Toluene	0.00632	J	0.00159	0.00635	1	01/22/2019 16:03	WG1226460
1,2,3-Trichlorobenzene	U		0.000794	0.00317	1	01/26/2019 01:48	WG1228513
1,2,4-Trichlorobenzene	U		0.00612	0.0159	1	01/22/2019 16:03	WG1226460
1,1,1-Trichloroethane	U		0.000349	0.00317	1	01/22/2019 16:03	WG1226460
1,1,2-Trichloroethane	U		0.00112	0.00317	1	01/22/2019 16:03	WG1226460
Trichloroethene	0.00675		0.000508	0.00127	1	01/22/2019 16:03	WG1226460
Trichlorofluoromethane	U		0.000635	0.00317	1	01/22/2019 16:03	WG1226460
1,2,3-Trichloropropane	U		0.00648	0.0159	1	01/22/2019 16:03	WG1226460
1,2,4-Trimethylbenzene	0.00409	J	0.00147	0.00635	1	01/22/2019 16:03	WG1226460
1,2,3-Trimethylbenzene	0.00277	J JO J4	0.00146	0.00635	1	01/22/2019 16:03	WG1226460
1,3,5-Trimethylbenzene	0.00183	J	0.00137	0.00635	1	01/22/2019 16:03	WG1226460
Vinyl acetate	U	J4	0.00447	0.0159	1	01/22/2019 16:03	WG1226460
Vinyl chloride	0.0160		0.000867	0.00317	1	01/22/2019 16:03	WG1226460
Xylenes, Total	0.00611	J	0.00607	0.00825	1	01/22/2019 16:03	WG1226460
(S) Toluene-d8	71.3	J2		75.0-131		01/22/2019 16:03	WG1226460
(S) Toluene-d8	69.3	J2		75.0-131		01/26/2019 01:48	WG1228513
(S) Dibromofluoromethane	86.8			65.0-129		01/22/2019 16:03	WG1226460
(S) Dibromofluoromethane	83.2			65.0-129		01/26/2019 01:48	WG1228513
(S) a,a,a-Trifluorotoluene	96.8			80.0-120		01/22/2019 16:03	WG1226460
(S) a,a,a-Trifluorotoluene	108			80.0-120		01/26/2019 01:48	WG1228513
(S) 4-Bromofluorobenzene	99.0			67.0-138		01/22/2019 16:03	WG1226460
(S) 4-Bromofluorobenzene	104			67.0-138		01/26/2019 01:48	WG1228513

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	
Acetone	U		1.05	25.0	1	01/20/2019 22:41	WG1226185
Acrylonitrile	U		0.873	5.00	1	01/20/2019 22:41	WG1226185
Benzene	U		0.0896	0.500	1	01/20/2019 22:41	WG1226185
Bromobenzene	U		0.133	0.500	1	01/20/2019 22:41	WG1226185
Bromodichloromethane	U		0.0800	0.500	1	01/20/2019 22:41	WG1226185
Bromochloromethane	U		0.145	0.500	1	01/20/2019 22:41	WG1226185
Bromoform	U		0.186	0.500	1	01/20/2019 22:41	WG1226185
Bromomethane	U		0.157	2.50	1	01/20/2019 22:41	WG1226185
n-Butylbenzene	U		0.143	0.500	1	01/20/2019 22:41	WG1226185
sec-Butylbenzene	U		0.134	0.500	1	01/20/2019 22:41	WG1226185
tert-Butylbenzene	U		0.183	0.500	1	01/20/2019 22:41	WG1226185
Carbon disulfide	U		0.101	0.500	1	01/20/2019 22:41	WG1226185
Carbon tetrachloride	U		0.159	0.500	1	01/20/2019 22:41	WG1226185
Chlorobenzene	U		0.140	0.500	1	01/20/2019 22:41	WG1226185
Chlorodibromomethane	U		0.128	0.500	1	01/20/2019 22:41	WG1226185
Chloroethane	U		0.141	2.50	1	01/20/2019 22:41	WG1226185
Chloroform	U		0.0860	0.500	1	01/20/2019 22:41	WG1226185
Chloromethane	U		0.153	1.25	1	01/20/2019 22:41	WG1226185
2-Chlorotoluene	U		0.111	0.500	1	01/20/2019 22:41	WG1226185
4-Chlorotoluene	U		0.0972	0.500	1	01/20/2019 22:41	WG1226185
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/20/2019 22:41	WG1226185
1,2-Dibromoethane	U		0.193	0.500	1	01/20/2019 22:41	WG1226185
Dibromomethane	U		0.117	0.500	1	01/20/2019 22:41	WG1226185
1,2-Dichlorobenzene	U		0.101	0.500	1	01/20/2019 22:41	WG1226185
1,3-Dichlorobenzene	U		0.130	0.500	1	01/20/2019 22:41	WG1226185
1,4-Dichlorobenzene	U		0.121	0.500	1	01/20/2019 22:41	WG1226185
Dichlorodifluoromethane	U		0.127	2.50	1	01/20/2019 22:41	WG1226185
1,1-Dichloroethane	U		0.114	0.500	1	01/20/2019 22:41	WG1226185
1,2-Dichloroethane	U		0.108	0.500	1	01/20/2019 22:41	WG1226185
1,1-Dichloroethene	U		0.188	0.500	1	01/20/2019 22:41	WG1226185
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/20/2019 22:41	WG1226185
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/20/2019 22:41	WG1226185
1,2-Dichloropropane	U		0.190	0.500	1	01/20/2019 22:41	WG1226185
1,1-Dichloropropene	U		0.128	0.500	1	01/20/2019 22:41	WG1226185
1,3-Dichloropropane	U		0.147	1.00	1	01/20/2019 22:41	WG1226185
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/20/2019 22:41	WG1226185
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/20/2019 22:41	WG1226185
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/20/2019 22:41	WG1226185
2,2-Dichloropropane	U		0.0929	0.500	1	01/20/2019 22:41	WG1226185
Di-isopropyl ether	U		0.0924	0.500	1	01/20/2019 22:41	WG1226185
Ethylbenzene	U		0.158	0.500	1	01/20/2019 22:41	WG1226185
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/20/2019 22:41	WG1226185
2-Hexanone	U		0.757	5.00	1	01/20/2019 22:41	WG1226185
n-Hexane	U		0.305	5.00	1	01/20/2019 22:41	WG1226185
Iodomethane	U		0.377	10.0	1	01/20/2019 22:41	WG1226185
Isopropylbenzene	U		0.126	0.500	1	01/20/2019 22:41	WG1226185
p-Isopropyltoluene	U		0.138	0.500	1	01/20/2019 22:41	WG1226185
2-Butanone (MEK)	U		1.28	5.00	1	01/20/2019 22:41	WG1226185
Methylene Chloride	U		1.07	2.50	1	01/20/2019 22:41	WG1226185
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/20/2019 22:41	WG1226185
Methyl tert-butyl ether	U		0.102	0.500	1	01/20/2019 22:41	WG1226185
Naphthalene	U		0.174	2.50	1	01/20/2019 22:41	WG1226185
n-Propylbenzene	U		0.162	0.500	1	01/20/2019 22:41	WG1226185
Styrene	U		0.117	0.500	1	01/20/2019 22:41	WG1226185
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/20/2019 22:41	WG1226185
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/20/2019 22:41	WG1226185

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ 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	01/20/2019 22:41	WG1226185
Tetrachloroethene	U		0.199	0.500	1	01/20/2019 22:41	WG1226185
Toluene	U		0.412	0.500	1	01/20/2019 22:41	WG1226185
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/20/2019 22:41	WG1226185
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/20/2019 22:41	WG1226185
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/20/2019 22:41	WG1226185
1,1,2-Trichloroethane	U		0.186	0.500	1	01/20/2019 22:41	WG1226185
Trichloroethene	U		0.153	0.500	1	01/20/2019 22:41	WG1226185
Trichlorofluoromethane	U		0.130	2.50	1	01/20/2019 22:41	WG1226185
1,2,3-Trichloropropane	U		0.247	2.50	1	01/20/2019 22:41	WG1226185
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/20/2019 22:41	WG1226185
1,2,3-Trimethylbenzene	U	J4	0.0739	0.500	1	01/20/2019 22:41	WG1226185
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/20/2019 22:41	WG1226185
Vinyl acetate	U		0.645	5.00	1	01/20/2019 22:41	WG1226185
Vinyl chloride	U		0.118	0.500	1	01/20/2019 22:41	WG1226185
Xylenes, Total	U		0.316	1.50	1	01/20/2019 22:41	WG1226185
(S) Toluene-d8	98.0			80.0-120		01/20/2019 22:41	WG1226185
(S) Dibromofluoromethane	94.0			75.0-120		01/20/2019 22:41	WG1226185
(S) a,a,a-Trifluorotoluene	98.0			80.0-120		01/20/2019 22:41	WG1226185
(S) 4-Bromofluorobenzene	93.0			77.0-126		01/20/2019 22:41	WG1226185

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

L1062820-06,07,08

Method Blank (MB)

(MB) R3378207-1 01/23/19 12:49

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

L1062825-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1062825-05 01/23/19 12:49 • (DUP) R3378207-3 01/23/19 12:49

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	91.9	89.0	1	3.19		10

Laboratory Control Sample (LCS)

(LCS) R3378207-2 01/23/19 12:49

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

 ^1Cp ^{99m}Tc ${}^3S_1$ ${}^4\text{Cn}$ ^{87}Sr ${}^6\text{Qc}$

GI

 Al^{3+}

Sc

Method Blank (MB)

(MB) R3378265-5 01/22/19 00:58

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)	94.2			77.0-120

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3378265-3 01/21/19 23:46 • (LCSD) R3378265-4 01/22/19 00:10

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 %
TPHG C6 - C12	5.50	4.77	4.97	86.7	90.4	71.0-124			4.11	20
(S) a,a,a-Trifluorotoluene(FID)				105	106	77.0-120				

Method Blank (MB)

(MB) R3378773-5 01/20/19 21:32

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

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3378773-5 01/20/19 21:32

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	0.247	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	98.0			80.0-120
(S) Dibromofluoromethane	93.0			75.0-120
(S) a,a,a-Trifluorotoluene	100			80.0-120
(S) 4-Bromofluorobenzene	95.0			77.0-126

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



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

(LCS) R3378773-1 01/20/19 19:54 • (LCSD) R3378773-2 01/20/19 20:14

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	125	143	141	114	113	19.0-160			0.833	27
Acrylonitrile	125	122	121	97.3	96.9	55.0-149			0.403	20
Benzene	25.0	23.9	24.4	95.6	97.6	70.0-123			2.08	20
Bromobenzene	25.0	24.2	23.9	96.8	95.5	73.0-121			1.36	20
Bromodichloromethane	25.0	25.3	25.8	101	103	75.0-120			2.05	20
Bromochloromethane	25.0	25.7	25.7	103	103	76.0-122			0.189	20
Bromoform	25.0	22.4	22.0	89.5	87.9	68.0-132			1.76	20
Bromomethane	25.0	24.1	24.7	96.2	98.7	10.0-160			2.60	25
n-Butylbenzene	25.0	25.2	25.2	101	101	73.0-125			0.104	20
sec-Butylbenzene	25.0	24.6	25.1	98.5	100	75.0-125			1.92	20
tert-Butylbenzene	25.0	25.0	25.7	100	103	76.0-124			2.85	20
Carbon disulfide	25.0	24.3	24.8	97.1	99.4	61.0-128			2.32	20
Carbon tetrachloride	25.0	24.0	24.7	95.9	98.6	68.0-126			2.81	20
Chlorobenzene	25.0	25.4	25.2	102	101	80.0-121			1.04	20
Chlorodibromomethane	25.0	25.7	25.3	103	101	77.0-125			1.57	20
Chloroethane	25.0	24.5	24.2	97.8	97.0	47.0-150			0.850	20
Chloroform	25.0	24.0	24.5	96.2	98.1	73.0-120			1.97	20
Chloromethane	25.0	22.5	22.9	89.8	91.5	41.0-142			1.87	20
2-Chlorotoluene	25.0	24.1	24.4	96.4	97.7	76.0-123			1.34	20
4-Chlorotoluene	25.0	24.5	24.5	98.0	98.1	75.0-122			0.142	20
1,2-Dibromo-3-Chloropropane	25.0	24.0	24.1	96.0	96.4	58.0-134			0.446	20
1,2-Dibromoethane	25.0	26.0	25.1	104	100	80.0-122			3.51	20
Dibromomethane	25.0	25.3	25.7	101	103	80.0-120			1.71	20
1,2-Dichlorobenzene	25.0	24.8	24.9	99.3	99.7	79.0-121			0.430	20
1,3-Dichlorobenzene	25.0	24.6	24.4	98.3	97.5	79.0-120			0.869	20
1,4-Dichlorobenzene	25.0	23.9	24.1	95.6	96.3	79.0-120			0.720	20
Dichlorodifluoromethane	25.0	23.9	24.3	95.7	97.1	51.0-149			1.38	20
1,1-Dichloroethane	25.0	24.9	25.4	99.6	101	70.0-126			1.79	20
1,2-Dichloroethane	25.0	24.9	24.9	99.5	99.8	70.0-128			0.301	20
1,1-Dichloroethene	25.0	26.2	26.4	105	106	71.0-124			0.843	20
cis-1,2-Dichloroethene	25.0	24.8	25.6	99.1	102	73.0-120			3.22	20
trans-1,2-Dichloroethene	25.0	25.3	25.8	101	103	73.0-120			1.95	20
1,2-Dichloropropane	25.0	25.3	25.9	101	104	77.0-125			2.33	20
1,1-Dichloropropene	25.0	23.5	24.3	93.9	97.0	74.0-126			3.27	20
1,3-Dichloropropane	25.0	25.8	24.8	103	99.4	80.0-120			3.83	20
cis-1,3-Dichloropropene	25.0	25.8	25.2	103	101	80.0-123			2.01	20
trans-1,3-Dichloropropene	25.0	26.3	25.4	105	102	78.0-124			3.40	20
trans-1,4-Dichloro-2-butene	25.0	21.5	21.2	86.1	84.6	33.0-144			1.72	20
2,2-Dichloropropane	25.0	24.4	25.6	97.8	102	58.0-130			4.57	20
Di-isopropyl ether	25.0	24.8	25.1	99.0	100	58.0-138			1.43	20

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) R3378773-1 01/20/19 19:54 • (LCSD) R3378773-2 01/20/19 20:14

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	25.8	25.3	103	101	79.0-123			1.83	20
Hexachloro-1,3-butadiene	25.0	24.8	25.1	99.2	100	54.0-138			1.33	20
2-Hexanone	125	132	125	105	100	67.0-149			5.13	20
n-Hexane	25.0	25.9	25.8	103	103	57.0-133			0.229	20
Iodomethane	125	128	131	103	105	33.0-147			2.25	26
Isopropylbenzene	25.0	24.9	25.3	99.7	101	76.0-127			1.73	20
p-Isopropyltoluene	25.0	25.6	26.1	102	104	76.0-125			2.03	20
2-Butanone (MEK)	125	125	122	99.9	97.6	44.0-160			2.37	20
Methylene Chloride	25.0	23.9	24.3	95.6	97.2	67.0-120			1.67	20
4-Methyl-2-pentanone (MIBK)	125	125	121	99.9	96.9	68.0-142			3.10	20
Methyl tert-butyl ether	25.0	25.3	26.0	101	104	68.0-125			2.91	20
Naphthalene	25.0	26.1	26.4	104	106	54.0-135			1.30	20
n-Propylbenzene	25.0	24.3	24.6	97.4	98.4	77.0-124			1.05	20
Styrene	25.0	25.1	25.0	100	100	73.0-130			0.317	20
1,1,1,2-Tetrachloroethane	25.0	26.1	26.8	104	107	75.0-125			2.95	20
1,1,2,2-Tetrachloroethane	25.0	24.6	24.3	98.6	97.1	65.0-130			1.50	20
1,1,2-Trichlorotrifluoroethane	25.0	25.9	26.7	104	107	69.0-132			2.93	20
Tetrachloroethene	25.0	25.4	25.5	102	102	72.0-132			0.0451	20
Toluene	25.0	24.2	24.2	97.0	96.8	79.0-120			0.191	20
1,2,3-Trichlorobenzene	25.0	26.0	26.5	104	106	50.0-138			1.92	20
1,2,4-Trichlorobenzene	25.0	26.3	26.6	105	106	57.0-137			1.05	20
1,1,1-Trichloroethane	25.0	25.3	26.2	101	105	73.0-124			3.71	20
1,1,2-Trichloroethane	25.0	25.6	24.7	102	98.8	80.0-120			3.41	20
Trichloroethene	25.0	24.5	25.8	98.2	103	78.0-124			4.84	20
Trichlorofluoromethane	25.0	24.7	25.0	98.6	100	59.0-147			1.52	20
1,2,3-Trichloropropane	25.0	24.5	24.4	97.9	97.6	73.0-130			0.353	20
1,2,4-Trimethylbenzene	25.0	24.4	24.7	97.6	98.9	76.0-121			1.27	20
1,2,3-Trimethylbenzene	25.0	18.9	19.2	75.5	76.9	77.0-120	J4	J4	1.81	20
1,3,5-Trimethylbenzene	25.0	24.7	25.3	98.8	101	76.0-122			2.46	20
Vinyl acetate	125	135	131	108	105	11.0-160			3.51	20
Vinyl chloride	25.0	23.4	23.8	93.6	95.4	67.0-131			1.87	20
Xylenes, Total	75.0	77.3	77.3	103	103	79.0-123			0.000	20
(S) Toluene-d8				100	98.0	80.0-120				
(S) Dibromofluoromethane				96.0	97.0	75.0-120				
(S) a,a,a-Trifluorotoluene				98.0	101	80.0-120				
(S) 4-Bromofluorobenzene				96.0	93.0	77.0-126				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3378699-2 01/22/19 10:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250
n-Hexane	0.00249	U	0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3378699-2 01/22/19 10:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	0.0180	J	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	110			75.0-131
(S) Dibromofluoromethane	83.8			65.0-129
(S) a,a,a-Trifluorotoluene	99.1			80.0-120
(S) 4-Bromofluorobenzene	97.0			67.0-138

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R3378699-1 01/22/19 09:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.677	108	10.0-160	
Acrylonitrile	0.625	0.571	91.4	45.0-153	
Benzene	0.125	0.121	96.7	70.0-123	
Bromobenzene	0.125	0.109	87.0	73.0-121	
Bromodichloromethane	0.125	0.124	99.1	73.0-121	
Bromochloromethane	0.125	0.129	103	77.0-128	



Laboratory Control Sample (LCS)

(LCS) R3378699-1 01/22/19 09:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromoform	0.125	0.104	82.8	64.0-132	
Bromomethane	0.125	0.152	121	56.0-147	
n-Butylbenzene	0.125	0.112	89.5	68.0-135	
sec-Butylbenzene	0.125	0.108	86.1	74.0-130	
tert-Butylbenzene	0.125	0.111	89.2	75.0-127	
Carbon disulfide	0.125	0.110	87.8	56.0-133	
Carbon tetrachloride	0.125	0.125	100	66.0-128	
Chlorobenzene	0.125	0.123	98.7	76.0-128	
Chlorodibromomethane	0.125	0.106	85.0	74.0-127	
Chloroethane	0.125	0.135	108	61.0-134	
Chloroform	0.125	0.120	95.6	72.0-123	
Chloromethane	0.125	0.130	104	51.0-138	
2-Chlorotoluene	0.125	0.119	95.5	75.0-124	
4-Chlorotoluene	0.125	0.110	87.8	75.0-124	
1,2-Dibromoethane	0.125	0.121	96.5	74.0-128	
Dibromomethane	0.125	0.117	93.8	75.0-122	
1,2-Dichlorobenzene	0.125	0.126	100	76.0-124	
1,3-Dichlorobenzene	0.125	0.123	98.1	76.0-125	
1,4-Dichlorobenzene	0.125	0.121	96.4	77.0-121	
1,1-Dichloroethane	0.125	0.117	93.3	70.0-127	
1,2-Dichloroethane	0.125	0.133	106	65.0-131	
trans-1,2-Dichloroethene	0.125	0.120	96.2	71.0-125	
1,2-Dichloropropane	0.125	0.129	103	74.0-125	
1,1-Dichloropropene	0.125	0.116	92.7	73.0-125	
1,3-Dichloropropane	0.125	0.127	101	80.0-125	
cis-1,3-Dichloropropene	0.125	0.121	96.8	76.0-127	
trans-1,3-Dichloropropene	0.125	0.115	91.7	73.0-127	
2,2-Dichloropropane	0.125	0.136	108	59.0-135	
Ethylbenzene	0.125	0.123	98.6	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.0995	79.6	57.0-150	
2-Hexanone	0.625	0.514	82.2	54.0-147	
n-Hexane	0.125	0.148	118	55.0-137	
Iodomethane	0.625	0.629	101	74.0-134	
Isopropylbenzene	0.125	0.112	89.6	72.0-127	
p-Isopropyltoluene	0.125	0.113	90.0	72.0-133	
2-Butanone (MEK)	0.625	0.590	94.3	30.0-160	
Methylene Chloride	0.125	0.120	96.3	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.569	91.0	56.0-143	
Methyl tert-butyl ether	0.125	0.117	94.0	66.0-132	
n-Propylbenzene	0.125	0.116	92.5	74.0-126	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Laboratory Control Sample (LCS)

(LCS) R3378699-1 01/22/19 09:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Styrene	0.125	0.115	91.7	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.117	93.9	74.0-129	
Tetrachloroethene	0.125	0.137	109	70.0-136	
Toluene	0.125	0.127	102	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.125	100	61.0-139	
1,2,4-Trichlorobenzene	0.125	0.100	80.3	62.0-137	
1,1,1-Trichloroethane	0.125	0.122	97.7	69.0-126	
1,1,2-Trichloroethane	0.125	0.123	98.5	78.0-123	
Trichloroethene	0.125	0.123	98.4	76.0-126	
Trichlorofluoromethane	0.125	0.137	109	61.0-142	
1,2,3-Trichloropropane	0.125	0.113	90.6	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.0880	70.4	74.0-124	J4
1,2,4-Trimethylbenzene	0.125	0.111	89.0	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.113	90.7	73.0-127	
Vinyl acetate	0.625	1.12	179	43.0-159	J4
Vinyl chloride	0.125	0.138	110	63.0-134	
Xylenes, Total	0.375	0.369	98.4	72.0-127	
(S) Toluene-d8			100	75.0-131	
(S) Dibromofluoromethane			91.0	65.0-129	
(S) a,a,a-Trifluorotoluene			100	80.0-120	
(S) 4-Bromofluorobenzene			87.6	67.0-138	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3378929-2 01/25/19 23:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
n-Butylbenzene	U		0.00384	0.0125
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
(S) Toluene-d8	108			75.0-131
(S) Dibromofluoromethane	78.6			65.0-129
(S) a,a,a-Trifluorotoluene	114			80.0-120
(S) 4-Bromofluorobenzene	101			67.0-138

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3378929-1 01/25/19 21:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
n-Butylbenzene	0.125	0.119	95.1	68.0-135	
1,2-Dibromo-3-Chloropropane	0.125	0.156	125	59.0-130	
trans-1,4-Dichloro-2-butene	0.125	0.109	87.3	45.0-143	
Dichlorodifluoromethane	0.125	0.164	131	43.0-156	
1,1-Dichloroethene	0.125	0.114	91.0	65.0-131	
cis-1,2-Dichloroethene	0.125	0.0964	77.1	73.0-125	
Di-isopropyl ether	0.125	0.101	80.5	60.0-136	
Naphthalene	0.125	0.121	97.0	59.0-130	
n-Propylbenzene	0.125	0.0999	79.9	74.0-126	
1,1,2,2-Tetrachloroethane	0.125	0.100	80.1	68.0-128	
1,2,3-Trichlorobenzene	0.125	0.134	107	59.0-139	
(S) Toluene-d8			107	75.0-131	
(S) Dibromofluoromethane			94.5	65.0-129	
(S) a,a,a-Trifluorotoluene			105	80.0-120	
(S) 4-Bromofluorobenzene			100	67.0-138	



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, the sample preparation volume or weight values differ from the standard, 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.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
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: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J4	The associated batch QC was outside the established quality control range for accuracy.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc



Pace National 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.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

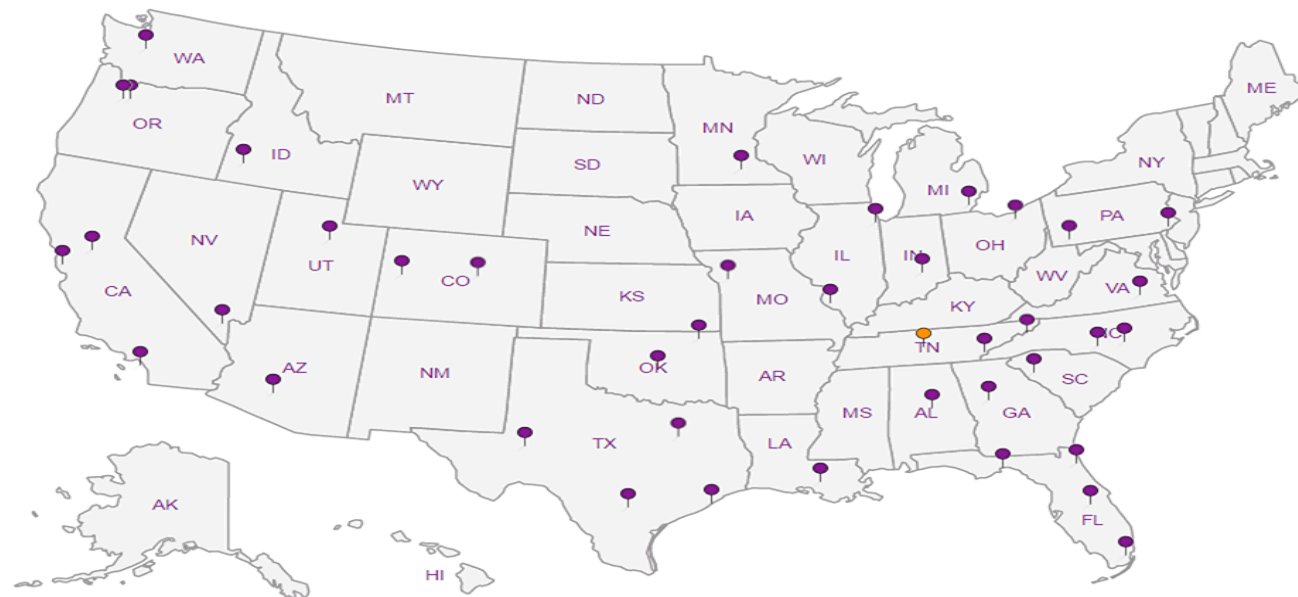
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National 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. Pace National 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



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



L# 1062720

I166

Acctnum: PESENVSWA

Template: T144906

Prelogin: P689591

TSR: 110 - Brian Ford

PB:

Shipped Via:

Remarks

Sample # (lab only)

Report to:

Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;
bhaldeman@pesenv.com;

KVIC@PESENV.COM

Project

Description: American Linen

City/State

Collected: Seattle, WA

Phone: 206-529-3980

Fax: 206-529-3985

Client Project #

1413.001.05.501

Lab Project #

PESENVSWA-ALP

Collected by (print):

Ben Hecht

Site/Facility ID #

American Linen

P.O. #

Collected by (signature):

Ben Hecht

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

No.
of
Cntrs

Immediately

Packed on ice N Y

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

B2D2-3

Grab

SS

3

1-16-18

0855

2

B2D2-6

SS

6

1010

2

B2D2-8

SS

8

1150

2

A3C3-3

SS

3

1435

2

A3C3-6

SS

6

1450

2

A3C3-8

SS

8

1505

2

B4D4-3

SS

3

1-17-19

0825

2

B4D4-6

SS

6

0940

2

B4D4-10

SS

10

1030

2

TB-D11819

SS

-

-

1300

1

* Matrix:

SS - Soil AIR - Air F - Filter

GW - Groundwater B - Bioassay

WW - WasteWater

DW - Drinking Water

OT - Other

Remarks:

Samples returned via:

UPS FedEx Courier

Tracking #

pH Temp

Flow Other

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

VQA Zero Headspace: ☒ Y ☐ N

Preservation Correct/Checked: ☒ Y ☐ N

RAD SCREEN: <0.5 mSv/hr

Relinquished by: (Signature)

Ben Hecht

Date:

1-18-19

Time:

12:30

Received by: (Signature)

RM Laughlin

Trip Blank Received: ☒ Yes ☐ No

HCl MeOH TBR

Relinquished by: (Signature)

RM Laughlin

Date:

1-18-19

Time:

1500

Received by: (Signature)

RM Laughlin

Temp: 0.2 °C

1210

Bottles Received:

10

If preservation required by Login: Date/Time

Relinquished by: (Signature)

RM Laughlin

Date:

1-19-19

Time:

920

Received for lab by: (Signature)

asm

Date:

1/19/19

Time:

920

Hold:

10

Condition:

NCF 10

January 28, 2019

PES Environmental, Inc.- WA

Sample Delivery Group: L1062825
Samples Received: 01/19/2019
Project Number: 1413.001.05.501
Description: American Linen
Site: AMERICAN LINEN
Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:



Jason Romer
Project Manager

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 Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Sr: Sample Results	6
B1D1-11 L1062825-01	6
B1D1-15 L1062825-02	8
B1D1-20 L1062825-03	10
B1D1-25 L1062825-04	12
B1D1-31 L1062825-05	14
B1D1-35 L1062825-06	16
B1D1-40 L1062825-07	18
B1D1-45 L1062825-08	20
B1D1-50 L1062825-09	22
Qc: Quality Control Summary	24
Total Solids by Method 2540 G-2011	24
Volatile Organic Compounds (GC) by Method NWTPHGX	26
Volatile Organic Compounds (GC/MS) by Method 8260C	27
Gl: Glossary of Terms	32
Al: Accreditations & Locations	33
Sc: Sample Chain of Custody	34



SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B1D1-11 L1062825-01 Solid

Collected by
R. McLaughlin

Collected date/time
01/17/19 09:35

Received date/time
01/19/19 09:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1226762	1	01/23/19 12:31	01/23/19 12:49	JD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1226536	25	01/17/19 09:35	01/22/19 15:02	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226460	1	01/17/19 09:35	01/22/19 16:26	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228513	1	01/17/19 09:35	01/26/19 02:08	BMB

¹ Cp

² Tc

³ Ss

⁴ Cn

B1D1-15 L1062825-02 Solid

Collected by
R. McLaughlin

Collected date/time
01/17/19 09:15

Received date/time
01/19/19 09:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1226762	1	01/23/19 12:31	01/23/19 12:49	JD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1226536	25	01/17/19 09:15	01/22/19 15:23	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226460	1	01/17/19 09:15	01/22/19 16:48	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228513	1	01/17/19 09:15	01/26/19 02:28	BMB

⁵ Sr

⁶ Qc

⁷ Gl

B1D1-20 L1062825-03 Solid

Collected by
R. McLaughlin

Collected date/time
01/17/19 10:05

Received date/time
01/19/19 09:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1226762	1	01/23/19 12:31	01/23/19 12:49	JD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1226536	25	01/17/19 10:05	01/22/19 15:44	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226460	1	01/17/19 10:05	01/22/19 17:10	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228513	1	01/17/19 10:05	01/26/19 02:49	BMB

⁸ Al

⁹ Sc

B1D1-25 L1062825-04 Solid

Collected by
R. McLaughlin

Collected date/time
01/17/19 09:58

Received date/time
01/19/19 09:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1226762	1	01/23/19 12:31	01/23/19 12:49	JD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1226536	25	01/17/19 09:58	01/22/19 16:06	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226460	1	01/17/19 09:58	01/22/19 17:33	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228513	1	01/17/19 09:58	01/26/19 03:09	BMB

B1D1-31 L1062825-05 Solid

Collected by
R. McLaughlin

Collected date/time
01/17/19 10:15

Received date/time
01/19/19 09:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1226762	1	01/23/19 12:31	01/23/19 12:49	JD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1226536	25	01/17/19 10:15	01/22/19 16:27	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226460	1	01/17/19 10:15	01/22/19 17:55	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228513	1	01/17/19 10:15	01/26/19 03:29	BMB

B1D1-35 L1062825-06 Solid

Collected by
R. McLaughlin

Collected date/time
01/17/19 09:36

Received date/time
01/19/19 09:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1226762	1	01/23/19 12:31	01/23/19 12:49	JD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1226536	25	01/17/19 09:36	01/22/19 16:48	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226460	1	01/17/19 09:36	01/22/19 18:17	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228513	1	01/17/19 09:36	01/26/19 03:49	BMB

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

1413.001.05.501

SDG:

L1062825

DATE/TIME:

01/28/19 11:03

PAGE:

3 of 35

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B1D1-40 L1062825-07 Solid

Collected by
R. McLaughlin

Collected date/time
01/17/19 10:25

Received date/time
01/19/19 09:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1226762	1	01/23/19 12:31	01/23/19 12:49	JD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1226536	25	01/17/19 10:25	01/22/19 17:09	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226460	1	01/17/19 10:25	01/22/19 18:39	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228513	1	01/17/19 10:25	01/26/19 04:10	BMB

¹ Cp

² Tc

³ Ss

⁴ Cn

B1D1-45 L1062825-08 Solid

Collected by
R. McLaughlin

Collected date/time
01/17/19 10:40

Received date/time
01/19/19 09:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1226766	1	01/23/19 11:00	01/23/19 11:13	JD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1226536	25	01/17/19 10:40	01/22/19 17:30	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226460	1	01/17/19 10:40	01/22/19 19:02	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228513	1	01/17/19 10:40	01/26/19 04:30	BMB

⁵ Sr

⁶ Qc

⁷ Gl

B1D1-50 L1062825-09 Solid

Collected by
R. McLaughlin

Collected date/time
01/17/19 11:05

Received date/time
01/19/19 09:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1226766	1	01/23/19 11:00	01/23/19 11:13	JD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1226536	25	01/17/19 11:05	01/22/19 17:52	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1226460	1	01/17/19 11:05	01/22/19 19:24	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228513	1	01/17/19 11:05	01/26/19 04:50	BMB

⁸ Al

⁹ Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, 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.

Jason Romer
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.6		1	01/23/2019 12:49	WG1226762

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	2.42	<u>J</u>	0.991	2.92	25	01/22/2019 15:02	WG1226536
(S) a,a,a-Trifluorotoluene(FID)	95.6			77.0-120		01/22/2019 15:02	WG1226536

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0160	0.0292	1	01/22/2019 16:26	WG1226460
Acrylonitrile	U		0.00222	0.0146	1	01/22/2019 16:26	WG1226460
Benzene	0.00250		0.000467	0.00117	1	01/22/2019 16:26	WG1226460
Bromobenzene	U		0.00123	0.0146	1	01/22/2019 16:26	WG1226460
Bromodichloromethane	U		0.000921	0.00292	1	01/22/2019 16:26	WG1226460
Bromochloromethane	U		0.00132	0.00584	1	01/22/2019 16:26	WG1226460
Bromoform	U		0.00699	0.0292	1	01/22/2019 16:26	WG1226460
Bromomethane	U		0.00432	0.0146	1	01/22/2019 16:26	WG1226460
n-Butylbenzene	U		0.00449	0.0146	1	01/22/2019 16:26	WG1226460
sec-Butylbenzene	U		0.00296	0.0146	1	01/22/2019 16:26	WG1226460
tert-Butylbenzene	U		0.00181	0.00584	1	01/22/2019 16:26	WG1226460
Carbon disulfide	U		0.00474	0.0146	1	01/22/2019 16:26	WG1226460
Carbon tetrachloride	U		0.00126	0.00584	1	01/22/2019 16:26	WG1226460
Chlorobenzene	U		0.000669	0.00292	1	01/22/2019 16:26	WG1226460
Chlorodibromomethane	U		0.000526	0.00292	1	01/22/2019 16:26	WG1226460
Chloroethane	U		0.00126	0.00584	1	01/22/2019 16:26	WG1226460
Chloroform	U		0.000485	0.00292	1	01/22/2019 16:26	WG1226460
Chloromethane	U		0.00162	0.0146	1	01/22/2019 16:26	WG1226460
2-Chlorotoluene	U		0.00107	0.00292	1	01/22/2019 16:26	WG1226460
4-Chlorotoluene	U		0.00132	0.00584	1	01/22/2019 16:26	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00596	0.0292	1	01/26/2019 02:08	WG1228513
1,2-Dibromoethane	U		0.000613	0.00292	1	01/22/2019 16:26	WG1226460
Dibromomethane	U		0.00117	0.00584	1	01/22/2019 16:26	WG1226460
1,2-Dichlorobenzene	U		0.00169	0.00584	1	01/22/2019 16:26	WG1226460
1,3-Dichlorobenzene	U		0.00199	0.00584	1	01/22/2019 16:26	WG1226460
1,4-Dichlorobenzene	U		0.00230	0.00584	1	01/22/2019 16:26	WG1226460
Dichlorodifluoromethane	U		0.000956	0.00292	1	01/26/2019 02:08	WG1228513
1,1-Dichloroethane	U		0.000672	0.00292	1	01/22/2019 16:26	WG1226460
1,2-Dichloroethane	U		0.000555	0.00292	1	01/22/2019 16:26	WG1226460
1,1-Dichloroethene	U		0.000584	0.00292	1	01/26/2019 02:08	WG1228513
cis-1,2-Dichloroethene	U		0.000806	0.00292	1	01/26/2019 02:08	WG1228513
trans-1,2-Dichloroethene	U		0.00167	0.00584	1	01/22/2019 16:26	WG1226460
1,2-Dichloropropane	U		0.00148	0.00584	1	01/22/2019 16:26	WG1226460
1,1-Dichloropropene	U		0.000818	0.00292	1	01/22/2019 16:26	WG1226460
1,3-Dichloropropane	U		0.00204	0.00584	1	01/22/2019 16:26	WG1226460
cis-1,3-Dichloropropene	U		0.000792	0.00292	1	01/22/2019 16:26	WG1226460
trans-1,3-Dichloropropene	U		0.00179	0.00584	1	01/22/2019 16:26	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00164	0.00584	1	01/26/2019 02:08	WG1228513
2,2-Dichloropropane	U		0.000927	0.00292	1	01/22/2019 16:26	WG1226460
Di-isopropyl ether	U		0.000409	0.00117	1	01/26/2019 02:08	WG1228513
Ethylbenzene	0.00129	<u>J</u>	0.000619	0.00292	1	01/22/2019 16:26	WG1226460
Hexachloro-1,3-butadiene	U	<u>JO</u>	0.0148	0.0292	1	01/22/2019 16:26	WG1226460
2-Hexanone	U		0.0117	0.0292	1	01/22/2019 16:26	WG1226460
n-Hexane	0.0136	<u>B</u>	0.00124	0.00584	1	01/22/2019 16:26	WG1226460

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/17/19 09:35

L1062825

Volatile Organic Compounds (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		0.00707	0.0146	1	01/22/2019 16:26	WG1226460
Isopropylbenzene	U		0.00101	0.00292	1	01/22/2019 16:26	WG1226460
p-Isopropyltoluene	0.0141		0.00272	0.00584	1	01/22/2019 16:26	WG1226460
2-Butanone (MEK)	U		0.0146	0.0292	1	01/22/2019 16:26	WG1226460
Methylene Chloride	U		0.00776	0.0292	1	01/22/2019 16:26	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0292	1	01/22/2019 16:26	WG1226460
Methyl tert-butyl ether	U		0.000345	0.00117	1	01/22/2019 16:26	WG1226460
Naphthalene	U		0.00365	0.0146	1	01/26/2019 02:08	WG1228513
n-Propylbenzene	0.00188	J	0.00138	0.00584	1	01/22/2019 16:26	WG1226460
Styrene	U		0.00319	0.0146	1	01/22/2019 16:26	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000584	0.00292	1	01/22/2019 16:26	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000456	0.00292	1	01/26/2019 02:08	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.000789	0.00292	1	01/22/2019 16:26	WG1226460
Tetrachloroethene	0.00192	J	0.000818	0.00292	1	01/22/2019 16:26	WG1226460
Toluene	0.00261	J	0.00146	0.00584	1	01/22/2019 16:26	WG1226460
1,2,3-Trichlorobenzene	U		0.000730	0.00292	1	01/26/2019 02:08	WG1228513
1,2,4-Trichlorobenzene	U		0.00563	0.0146	1	01/22/2019 16:26	WG1226460
1,1,1-Trichloroethane	U		0.000321	0.00292	1	01/22/2019 16:26	WG1226460
1,1,2-Trichloroethane	U		0.00103	0.00292	1	01/22/2019 16:26	WG1226460
Trichloroethene	U		0.000467	0.00117	1	01/22/2019 16:26	WG1226460
Trichlorofluoromethane	U		0.000584	0.00292	1	01/22/2019 16:26	WG1226460
1,2,3-Trichloropropane	U		0.00596	0.0146	1	01/22/2019 16:26	WG1226460
1,2,4-Trimethylbenzene	0.00188	J	0.00136	0.00584	1	01/22/2019 16:26	WG1226460
1,2,3-Trimethylbenzene	U	JO J4	0.00134	0.00584	1	01/22/2019 16:26	WG1226460
1,3,5-Trimethylbenzene	U		0.00126	0.00584	1	01/22/2019 16:26	WG1226460
Vinyl acetate	U	J4	0.00411	0.0146	1	01/22/2019 16:26	WG1226460
Vinyl chloride	U		0.000798	0.00292	1	01/22/2019 16:26	WG1226460
Xylenes, Total	U		0.00558	0.00759	1	01/22/2019 16:26	WG1226460
(S) Toluene-d8	95.0			75.0-131		01/22/2019 16:26	WG1226460
(S) Toluene-d8	98.9			75.0-131		01/26/2019 02:08	WG1228513
(S) Dibromofluoromethane	86.8			65.0-129		01/22/2019 16:26	WG1226460
(S) Dibromofluoromethane	84.1			65.0-129		01/26/2019 02:08	WG1228513
(S) a,a,a-Trifluorotoluene	99.7			80.0-120		01/22/2019 16:26	WG1226460
(S) a,a,a-Trifluorotoluene	104			80.0-120		01/26/2019 02:08	WG1228513
(S) 4-Bromofluorobenzene	94.6			67.0-138		01/22/2019 16:26	WG1226460
(S) 4-Bromofluorobenzene	104			67.0-138		01/26/2019 02:08	WG1228513

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

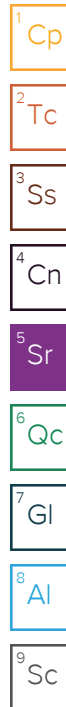
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	65.4		1	01/23/2019 12:49	WG1226762

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	1.67	<u>J</u>	1.30	3.82	25	01/22/2019 15:23	WG1226536
(S) a,a,a-Trifluorotoluene(FID)	93.7			77.0-120		01/22/2019 15:23	WG1226536

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0209	0.0382	1	01/22/2019 16:48	WG1226460
Acrylonitrile	U		0.00290	0.0191	1	01/22/2019 16:48	WG1226460
Benzene	U		0.000611	0.00153	1	01/22/2019 16:48	WG1226460
Bromobenzene	U		0.00161	0.0191	1	01/22/2019 16:48	WG1226460
Bromodichloromethane	U		0.00120	0.00382	1	01/22/2019 16:48	WG1226460
Bromochloromethane	U		0.00173	0.00764	1	01/22/2019 16:48	WG1226460
Bromoform	U		0.00914	0.0382	1	01/22/2019 16:48	WG1226460
Bromomethane	U		0.00566	0.0191	1	01/22/2019 16:48	WG1226460
n-Butylbenzene	U		0.00587	0.0191	1	01/22/2019 16:48	WG1226460
sec-Butylbenzene	U		0.00387	0.0191	1	01/22/2019 16:48	WG1226460
tert-Butylbenzene	U		0.00237	0.00764	1	01/22/2019 16:48	WG1226460
Carbon disulfide	U		0.00621	0.0191	1	01/22/2019 16:48	WG1226460
Carbon tetrachloride	U		0.00165	0.00764	1	01/22/2019 16:48	WG1226460
Chlorobenzene	U		0.000876	0.00382	1	01/22/2019 16:48	WG1226460
Chlorodibromomethane	U		0.000688	0.00382	1	01/22/2019 16:48	WG1226460
Chloroethane	U		0.00165	0.00764	1	01/22/2019 16:48	WG1226460
Chloroform	U		0.000634	0.00382	1	01/22/2019 16:48	WG1226460
Chloromethane	U		0.00212	0.0191	1	01/22/2019 16:48	WG1226460
2-Chlorotoluene	U		0.00141	0.00382	1	01/22/2019 16:48	WG1226460
4-Chlorotoluene	U		0.00173	0.00764	1	01/22/2019 16:48	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00780	0.0382	1	01/26/2019 02:28	WG1228513
1,2-Dibromoethane	U		0.000803	0.00382	1	01/22/2019 16:48	WG1226460
Dibromomethane	U		0.00153	0.00764	1	01/22/2019 16:48	WG1226460
1,2-Dichlorobenzene	U		0.00222	0.00764	1	01/22/2019 16:48	WG1226460
1,3-Dichlorobenzene	U		0.00260	0.00764	1	01/22/2019 16:48	WG1226460
1,4-Dichlorobenzene	U		0.00301	0.00764	1	01/22/2019 16:48	WG1226460
Dichlorodifluoromethane	U		0.00125	0.00382	1	01/26/2019 02:28	WG1228513
1,1-Dichloroethane	U		0.000879	0.00382	1	01/22/2019 16:48	WG1226460
1,2-Dichloroethane	U		0.000726	0.00382	1	01/22/2019 16:48	WG1226460
1,1-Dichloroethene	U		0.000764	0.00382	1	01/26/2019 02:28	WG1228513
cis-1,2-Dichloroethene	U		0.00105	0.00382	1	01/26/2019 02:28	WG1228513
trans-1,2-Dichloroethene	U		0.00219	0.00764	1	01/22/2019 16:48	WG1226460
1,2-Dichloropropane	U		0.00194	0.00764	1	01/22/2019 16:48	WG1226460
1,1-Dichloropropene	U		0.00107	0.00382	1	01/22/2019 16:48	WG1226460
1,3-Dichloropropane	U		0.00268	0.00764	1	01/22/2019 16:48	WG1226460
cis-1,3-Dichloropropene	U		0.00104	0.00382	1	01/22/2019 16:48	WG1226460
trans-1,3-Dichloropropene	U		0.00234	0.00764	1	01/22/2019 16:48	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00214	0.00764	1	01/26/2019 02:28	WG1228513
2,2-Dichloropropane	U		0.00121	0.00382	1	01/22/2019 16:48	WG1226460
Di-isopropyl ether	U		0.000535	0.00153	1	01/26/2019 02:28	WG1228513
Ethylbenzene	U		0.000810	0.00382	1	01/22/2019 16:48	WG1226460
Hexachloro-1,3-butadiene	U	<u>JO</u>	0.0194	0.0382	1	01/22/2019 16:48	WG1226460
2-Hexanone	U		0.0153	0.0382	1	01/22/2019 16:48	WG1226460
n-Hexane	0.00264	<u>B J</u>	0.00162	0.00764	1	01/22/2019 16:48	WG1226460





Collected date/time: 01/17/19 09:15

L1062825

Volatile Organic Compounds (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		0.00925	0.0191	1	01/22/2019 16:48	WG1226460
Isopropylbenzene	U		0.00132	0.00382	1	01/22/2019 16:48	WG1226460
p-Isopropyltoluene	U		0.00356	0.00764	1	01/22/2019 16:48	WG1226460
2-Butanone (MEK)	U		0.0191	0.0382	1	01/22/2019 16:48	WG1226460
Methylene Chloride	U		0.0102	0.0382	1	01/22/2019 16:48	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0153	0.0382	1	01/22/2019 16:48	WG1226460
Methyl tert-butyl ether	U		0.000451	0.00153	1	01/22/2019 16:48	WG1226460
Naphthalene	U		0.00477	0.0191	1	01/26/2019 02:28	WG1228513
n-Propylbenzene	U		0.00180	0.00764	1	01/22/2019 16:48	WG1226460
Styrene	U		0.00417	0.0191	1	01/22/2019 16:48	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000764	0.00382	1	01/22/2019 16:48	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000596	0.00382	1	01/26/2019 02:28	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.00103	0.00382	1	01/22/2019 16:48	WG1226460
Tetrachloroethene	U		0.00107	0.00382	1	01/22/2019 16:48	WG1226460
Toluene	U		0.00191	0.00764	1	01/22/2019 16:48	WG1226460
1,2,3-Trichlorobenzene	U		0.000955	0.00382	1	01/26/2019 02:28	WG1228513
1,2,4-Trichlorobenzene	U		0.00737	0.0191	1	01/22/2019 16:48	WG1226460
1,1,1-Trichloroethane	U		0.000420	0.00382	1	01/22/2019 16:48	WG1226460
1,1,2-Trichloroethane	U		0.00135	0.00382	1	01/22/2019 16:48	WG1226460
Trichloroethene	U		0.000611	0.00153	1	01/22/2019 16:48	WG1226460
Trichlorofluoromethane	U		0.000764	0.00382	1	01/22/2019 16:48	WG1226460
1,2,3-Trichloropropane	U		0.00780	0.0191	1	01/22/2019 16:48	WG1226460
1,2,4-Trimethylbenzene	U		0.00177	0.00764	1	01/22/2019 16:48	WG1226460
1,2,3-Trimethylbenzene	U	JO J4	0.00176	0.00764	1	01/22/2019 16:48	WG1226460
1,3,5-Trimethylbenzene	U		0.00165	0.00764	1	01/22/2019 16:48	WG1226460
Vinyl acetate	U	J4	0.00538	0.0191	1	01/22/2019 16:48	WG1226460
Vinyl chloride	U		0.00104	0.00382	1	01/22/2019 16:48	WG1226460
Xylenes, Total	U		0.00731	0.00994	1	01/22/2019 16:48	WG1226460
(S) Toluene-d8	102			75.0-131		01/22/2019 16:48	WG1226460
(S) Toluene-d8	106			75.0-131		01/26/2019 02:28	WG1228513
(S) Dibromofluoromethane	88.2			65.0-129		01/22/2019 16:48	WG1226460
(S) Dibromofluoromethane	86.0			65.0-129		01/26/2019 02:28	WG1228513
(S) a,a,a-Trifluorotoluene	99.7			80.0-120		01/22/2019 16:48	WG1226460
(S) a,a,a-Trifluorotoluene	107			80.0-120		01/26/2019 02:28	WG1228513
(S) 4-Bromofluorobenzene	95.4			67.0-138		01/22/2019 16:48	WG1226460
(S) 4-Bromofluorobenzene	103			67.0-138		01/26/2019 02:28	WG1228513

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

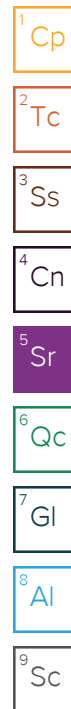
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.5		1	01/23/2019 12:49	WG1226762

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	1.67	<u>J</u>	1.04	3.07	25	01/22/2019 15:44	WG1226536
(S) a,a,a-Trifluorotoluene(FID)	95.7			77.0-120		01/22/2019 15:44	WG1226536

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0168	0.0307	1	01/22/2019 17:10	WG1226460
Acrylonitrile	U		0.00233	0.0153	1	01/22/2019 17:10	WG1226460
Benzene	U		0.000491	0.00123	1	01/22/2019 17:10	WG1226460
Bromobenzene	U		0.00129	0.0153	1	01/22/2019 17:10	WG1226460
Bromodichloromethane	U		0.000967	0.00307	1	01/22/2019 17:10	WG1226460
Bromochloromethane	U		0.00139	0.00614	1	01/22/2019 17:10	WG1226460
Bromoform	U		0.00734	0.0307	1	01/22/2019 17:10	WG1226460
Bromomethane	U		0.00454	0.0153	1	01/22/2019 17:10	WG1226460
n-Butylbenzene	U		0.00471	0.0153	1	01/22/2019 17:10	WG1226460
sec-Butylbenzene	U		0.00311	0.0153	1	01/22/2019 17:10	WG1226460
tert-Butylbenzene	U		0.00190	0.00614	1	01/22/2019 17:10	WG1226460
Carbon disulfide	U		0.00498	0.0153	1	01/22/2019 17:10	WG1226460
Carbon tetrachloride	U		0.00133	0.00614	1	01/22/2019 17:10	WG1226460
Chlorobenzene	U		0.000703	0.00307	1	01/22/2019 17:10	WG1226460
Chlorodibromomethane	U		0.000552	0.00307	1	01/22/2019 17:10	WG1226460
Chloroethane	U		0.00133	0.00614	1	01/22/2019 17:10	WG1226460
Chloroform	U		0.000509	0.00307	1	01/22/2019 17:10	WG1226460
Chloromethane	U		0.00171	0.0153	1	01/22/2019 17:10	WG1226460
2-Chlorotoluene	U		0.00113	0.00307	1	01/22/2019 17:10	WG1226460
4-Chlorotoluene	U		0.00139	0.00614	1	01/22/2019 17:10	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00626	0.0307	1	01/26/2019 02:49	WG1228513
1,2-Dibromoethane	U		0.000644	0.00307	1	01/22/2019 17:10	WG1226460
Dibromomethane	U		0.00123	0.00614	1	01/22/2019 17:10	WG1226460
1,2-Dichlorobenzene	U		0.00178	0.00614	1	01/22/2019 17:10	WG1226460
1,3-Dichlorobenzene	U		0.00209	0.00614	1	01/22/2019 17:10	WG1226460
1,4-Dichlorobenzene	U		0.00242	0.00614	1	01/22/2019 17:10	WG1226460
Dichlorodifluoromethane	U		0.00100	0.00307	1	01/26/2019 02:49	WG1228513
1,1-Dichloroethane	U		0.000706	0.00307	1	01/22/2019 17:10	WG1226460
1,2-Dichloroethane	U		0.000583	0.00307	1	01/22/2019 17:10	WG1226460
1,1-Dichloroethene	U		0.000614	0.00307	1	01/26/2019 02:49	WG1228513
cis-1,2-Dichloroethene	0.0236		0.000847	0.00307	1	01/26/2019 02:49	WG1228513
trans-1,2-Dichloroethene	U		0.00176	0.00614	1	01/22/2019 17:10	WG1226460
1,2-Dichloropropane	U		0.00156	0.00614	1	01/22/2019 17:10	WG1226460
1,1-Dichloropropene	U		0.000859	0.00307	1	01/22/2019 17:10	WG1226460
1,3-Dichloropropane	U		0.00215	0.00614	1	01/22/2019 17:10	WG1226460
cis-1,3-Dichloropropene	U		0.000832	0.00307	1	01/22/2019 17:10	WG1226460
trans-1,3-Dichloropropene	U		0.00188	0.00614	1	01/22/2019 17:10	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00172	0.00614	1	01/26/2019 02:49	WG1228513
2,2-Dichloropropane	U		0.000973	0.00307	1	01/22/2019 17:10	WG1226460
Di-isopropyl ether	U		0.000430	0.00123	1	01/26/2019 02:49	WG1228513
Ethylbenzene	U		0.000651	0.00307	1	01/22/2019 17:10	WG1226460
Hexachloro-1,3-butadiene	U	<u>JO</u>	0.0156	0.0307	1	01/22/2019 17:10	WG1226460
2-Hexanone	U		0.0123	0.0307	1	01/22/2019 17:10	WG1226460
n-Hexane	0.00443	<u>B J</u>	0.00130	0.00614	1	01/22/2019 17:10	WG1226460





Collected date/time: 01/17/19 10:05

L1062825

Volatile Organic Compounds (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		0.00743	0.0153	1	01/22/2019 17:10	WG1226460
Isopropylbenzene	U		0.00106	0.00307	1	01/22/2019 17:10	WG1226460
p-Isopropyltoluene	U		0.00286	0.00614	1	01/22/2019 17:10	WG1226460
2-Butanone (MEK)	U		0.0153	0.0307	1	01/22/2019 17:10	WG1226460
Methylene Chloride	0.0104	B J	0.00815	0.0307	1	01/22/2019 17:10	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0123	0.0307	1	01/22/2019 17:10	WG1226460
Methyl tert-butyl ether	U		0.000362	0.00123	1	01/22/2019 17:10	WG1226460
Naphthalene	U		0.00383	0.0153	1	01/26/2019 02:49	WG1228513
n-Propylbenzene	U		0.00145	0.00614	1	01/22/2019 17:10	WG1226460
Styrene	U		0.00335	0.0153	1	01/22/2019 17:10	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000614	0.00307	1	01/22/2019 17:10	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000479	0.00307	1	01/26/2019 02:49	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.000829	0.00307	1	01/22/2019 17:10	WG1226460
Tetrachloroethene	0.00173	J	0.000859	0.00307	1	01/22/2019 17:10	WG1226460
Toluene	U		0.00153	0.00614	1	01/22/2019 17:10	WG1226460
1,2,3-Trichlorobenzene	U		0.000767	0.00307	1	01/26/2019 02:49	WG1228513
1,2,4-Trichlorobenzene	U		0.00592	0.0153	1	01/22/2019 17:10	WG1226460
1,1,1-Trichloroethane	U		0.000338	0.00307	1	01/22/2019 17:10	WG1226460
1,1,2-Trichloroethane	U		0.00108	0.00307	1	01/22/2019 17:10	WG1226460
Trichloroethene	U		0.000491	0.00123	1	01/22/2019 17:10	WG1226460
Trichlorofluoromethane	U		0.000614	0.00307	1	01/22/2019 17:10	WG1226460
1,2,3-Trichloropropane	U		0.00626	0.0153	1	01/22/2019 17:10	WG1226460
1,2,4-Trimethylbenzene	U		0.00142	0.00614	1	01/22/2019 17:10	WG1226460
1,2,3-Trimethylbenzene	U	JO J4	0.00141	0.00614	1	01/22/2019 17:10	WG1226460
1,3,5-Trimethylbenzene	U		0.00133	0.00614	1	01/22/2019 17:10	WG1226460
Vinyl acetate	U	J4	0.00432	0.0153	1	01/22/2019 17:10	WG1226460
Vinyl chloride	U		0.000838	0.00307	1	01/22/2019 17:10	WG1226460
Xylenes, Total	U		0.00587	0.00798	1	01/22/2019 17:10	WG1226460
(S) Toluene-d8	103			75.0-131		01/22/2019 17:10	WG1226460
(S) Toluene-d8	106			75.0-131		01/26/2019 02:49	WG1228513
(S) Dibromofluoromethane	86.2			65.0-129		01/22/2019 17:10	WG1226460
(S) Dibromofluoromethane	84.7			65.0-129		01/26/2019 02:49	WG1228513
(S) a,a,a-Trifluorotoluene	98.8			80.0-120		01/22/2019 17:10	WG1226460
(S) a,a,a-Trifluorotoluene	108			80.0-120		01/26/2019 02:49	WG1228513
(S) 4-Bromofluorobenzene	95.7			67.0-138		01/22/2019 17:10	WG1226460
(S) 4-Bromofluorobenzene	105			67.0-138		01/26/2019 02:49	WG1228513

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

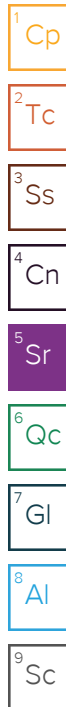
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.9		1	01/23/2019 12:49	WG1226762

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	1.89	<u>J</u>	1.18	3.48	25	01/22/2019 16:06	WG1226536
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		01/22/2019 16:06	WG1226536

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0191	0.0348	1	01/22/2019 17:33	WG1226460
Acrylonitrile	U		0.00264	0.0174	1	01/22/2019 17:33	WG1226460
Benzene	0.000625	<u>J</u>	0.000556	0.00139	1	01/22/2019 17:33	WG1226460
Bromobenzene	U		0.00146	0.0174	1	01/22/2019 17:33	WG1226460
Bromodichloromethane	U		0.00110	0.00348	1	01/22/2019 17:33	WG1226460
Bromochloromethane	U		0.00157	0.00695	1	01/22/2019 17:33	WG1226460
Bromoform	U		0.00832	0.0348	1	01/22/2019 17:33	WG1226460
Bromomethane	U		0.00515	0.0174	1	01/22/2019 17:33	WG1226460
n-Butylbenzene	U		0.00534	0.0174	1	01/22/2019 17:33	WG1226460
sec-Butylbenzene	U		0.00352	0.0174	1	01/22/2019 17:33	WG1226460
tert-Butylbenzene	U		0.00216	0.00695	1	01/22/2019 17:33	WG1226460
Carbon disulfide	U		0.00565	0.0174	1	01/22/2019 17:33	WG1226460
Carbon tetrachloride	U		0.00150	0.00695	1	01/22/2019 17:33	WG1226460
Chlorobenzene	U		0.000797	0.00348	1	01/22/2019 17:33	WG1226460
Chlorodibromomethane	U		0.000626	0.00348	1	01/22/2019 17:33	WG1226460
Chloroethane	U		0.00150	0.00695	1	01/22/2019 17:33	WG1226460
Chloroform	U		0.000577	0.00348	1	01/22/2019 17:33	WG1226460
Chloromethane	U		0.00193	0.0174	1	01/22/2019 17:33	WG1226460
2-Chlorotoluene	U		0.00128	0.00348	1	01/22/2019 17:33	WG1226460
4-Chlorotoluene	U		0.00157	0.00695	1	01/22/2019 17:33	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00709	0.0348	1	01/26/2019 03:09	WG1228513
1,2-Dibromoethane	U		0.000730	0.00348	1	01/22/2019 17:33	WG1226460
Dibromomethane	U		0.00139	0.00695	1	01/22/2019 17:33	WG1226460
1,2-Dichlorobenzene	U		0.00202	0.00695	1	01/22/2019 17:33	WG1226460
1,3-Dichlorobenzene	U		0.00236	0.00695	1	01/22/2019 17:33	WG1226460
1,4-Dichlorobenzene	U		0.00274	0.00695	1	01/22/2019 17:33	WG1226460
Dichlorodifluoromethane	U		0.00114	0.00348	1	01/26/2019 03:09	WG1228513
1,1-Dichloroethane	U		0.000800	0.00348	1	01/22/2019 17:33	WG1226460
1,2-Dichloroethane	U		0.000661	0.00348	1	01/22/2019 17:33	WG1226460
1,1-Dichloroethene	U		0.000695	0.00348	1	01/26/2019 03:09	WG1228513
cis-1,2-Dichloroethene	0.148		0.000960	0.00348	1	01/26/2019 03:09	WG1228513
trans-1,2-Dichloroethene	0.00304	<u>J</u>	0.00199	0.00695	1	01/22/2019 17:33	WG1226460
1,2-Dichloropropane	U		0.00177	0.00695	1	01/22/2019 17:33	WG1226460
1,1-Dichloropropene	U		0.000974	0.00348	1	01/22/2019 17:33	WG1226460
1,3-Dichloropropane	U		0.00243	0.00695	1	01/22/2019 17:33	WG1226460
cis-1,3-Dichloropropene	U		0.000943	0.00348	1	01/22/2019 17:33	WG1226460
trans-1,3-Dichloropropene	U		0.00213	0.00695	1	01/22/2019 17:33	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00195	0.00695	1	01/26/2019 03:09	WG1228513
2,2-Dichloropropane	U		0.00110	0.00348	1	01/22/2019 17:33	WG1226460
Di-isopropyl ether	U		0.000487	0.00139	1	01/26/2019 03:09	WG1228513
Ethylbenzene	U		0.000737	0.00348	1	01/22/2019 17:33	WG1226460
Hexachloro-1,3-butadiene	U	<u>JO</u>	0.0177	0.0348	1	01/22/2019 17:33	WG1226460
2-Hexanone	U		0.0139	0.0348	1	01/22/2019 17:33	WG1226460
n-Hexane	0.00361	<u>B J</u>	0.00147	0.00695	1	01/22/2019 17:33	WG1226460





Collected date/time: 01/17/19 09:58

L1062825

Volatile Organic Compounds (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		0.00841	0.0174	1	01/22/2019 17:33	WG1226460
Isopropylbenzene	U		0.00120	0.00348	1	01/22/2019 17:33	WG1226460
p-Isopropyltoluene	U		0.00324	0.00695	1	01/22/2019 17:33	WG1226460
2-Butanone (MEK)	U		0.0174	0.0348	1	01/22/2019 17:33	WG1226460
Methylene Chloride	U		0.00923	0.0348	1	01/22/2019 17:33	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0139	0.0348	1	01/22/2019 17:33	WG1226460
Methyl tert-butyl ether	U		0.000410	0.00139	1	01/22/2019 17:33	WG1226460
Naphthalene	U		0.00434	0.0174	1	01/26/2019 03:09	WG1228513
n-Propylbenzene	U		0.00164	0.00695	1	01/22/2019 17:33	WG1226460
Styrene	U		0.00380	0.0174	1	01/22/2019 17:33	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000695	0.00348	1	01/22/2019 17:33	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000542	0.00348	1	01/26/2019 03:09	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.000939	0.00348	1	01/22/2019 17:33	WG1226460
Tetrachloroethene	0.00783		0.000974	0.00348	1	01/22/2019 17:33	WG1226460
Toluene	U		0.00174	0.00695	1	01/22/2019 17:33	WG1226460
1,2,3-Trichlorobenzene	U		0.000869	0.00348	1	01/26/2019 03:09	WG1228513
1,2,4-Trichlorobenzene	U		0.00670	0.0174	1	01/22/2019 17:33	WG1226460
1,1,1-Trichloroethane	U		0.000382	0.00348	1	01/22/2019 17:33	WG1226460
1,1,2-Trichloroethane	U		0.00123	0.00348	1	01/22/2019 17:33	WG1226460
Trichloroethene	0.0922		0.000556	0.00139	1	01/22/2019 17:33	WG1226460
Trichlorofluoromethane	U		0.000695	0.00348	1	01/22/2019 17:33	WG1226460
1,2,3-Trichloropropane	U		0.00709	0.0174	1	01/22/2019 17:33	WG1226460
1,2,4-Trimethylbenzene	U		0.00161	0.00695	1	01/22/2019 17:33	WG1226460
1,2,3-Trimethylbenzene	U	JO J4	0.00160	0.00695	1	01/22/2019 17:33	WG1226460
1,3,5-Trimethylbenzene	U		0.00150	0.00695	1	01/22/2019 17:33	WG1226460
Vinyl acetate	U	J4	0.00490	0.0174	1	01/22/2019 17:33	WG1226460
Vinyl chloride	0.0596		0.000950	0.00348	1	01/22/2019 17:33	WG1226460
Xylenes, Total	U		0.00665	0.00904	1	01/22/2019 17:33	WG1226460
(S) Toluene-d8	103			75.0-131		01/22/2019 17:33	WG1226460
(S) Toluene-d8	105			75.0-131		01/26/2019 03:09	WG1228513
(S) Dibromofluoromethane	86.6			65.0-129		01/22/2019 17:33	WG1226460
(S) Dibromofluoromethane	87.0			65.0-129		01/26/2019 03:09	WG1228513
(S) a,a,a-Trifluorotoluene	99.4			80.0-120		01/22/2019 17:33	WG1226460
(S) a,a,a-Trifluorotoluene	108			80.0-120		01/26/2019 03:09	WG1228513
(S) 4-Bromofluorobenzene	92.3			67.0-138		01/22/2019 17:33	WG1226460
(S) 4-Bromofluorobenzene	105			67.0-138		01/26/2019 03:09	WG1228513

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

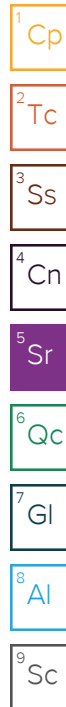
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.9		1	01/23/2019 12:49	WG1226762

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	1.07	<u>J</u>	0.923	2.72	25	01/22/2019 16:27	WG1226536
(S) a,a,a-Trifluorotoluene(FID)	95.4			77.0-120		01/22/2019 16:27	WG1226536

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0149	0.0272	1	01/22/2019 17:55	WG1226460
Acrylonitrile	U		0.00207	0.0136	1	01/22/2019 17:55	WG1226460
Benzene	U		0.000435	0.00109	1	01/22/2019 17:55	WG1226460
Bromobenzene	U		0.00114	0.0136	1	01/22/2019 17:55	WG1226460
Bromodichloromethane	U		0.000858	0.00272	1	01/22/2019 17:55	WG1226460
Bromochloromethane	U		0.00123	0.00544	1	01/22/2019 17:55	WG1226460
Bromoform	U		0.00651	0.0272	1	01/22/2019 17:55	WG1226460
Bromomethane	U		0.00403	0.0136	1	01/22/2019 17:55	WG1226460
n-Butylbenzene	U		0.00418	0.0136	1	01/22/2019 17:55	WG1226460
sec-Butylbenzene	U		0.00275	0.0136	1	01/22/2019 17:55	WG1226460
tert-Butylbenzene	U		0.00169	0.00544	1	01/22/2019 17:55	WG1226460
Carbon disulfide	U		0.00442	0.0136	1	01/22/2019 17:55	WG1226460
Carbon tetrachloride	U		0.00118	0.00544	1	01/22/2019 17:55	WG1226460
Chlorobenzene	U		0.000624	0.00272	1	01/22/2019 17:55	WG1226460
Chlorodibromomethane	U		0.000490	0.00272	1	01/22/2019 17:55	WG1226460
Chloroethane	U		0.00118	0.00544	1	01/22/2019 17:55	WG1226460
Chloroform	U		0.000452	0.00272	1	01/22/2019 17:55	WG1226460
Chloromethane	U		0.00151	0.0136	1	01/22/2019 17:55	WG1226460
2-Chlorotoluene	U		0.00100	0.00272	1	01/22/2019 17:55	WG1226460
4-Chlorotoluene	U		0.00123	0.00544	1	01/22/2019 17:55	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00555	0.0272	1	01/26/2019 03:29	WG1228513
1,2-Dibromoethane	U		0.000571	0.00272	1	01/22/2019 17:55	WG1226460
Dibromomethane	U		0.00109	0.00544	1	01/22/2019 17:55	WG1226460
1,2-Dichlorobenzene	U		0.00158	0.00544	1	01/22/2019 17:55	WG1226460
1,3-Dichlorobenzene	U		0.00185	0.00544	1	01/22/2019 17:55	WG1226460
1,4-Dichlorobenzene	U		0.00214	0.00544	1	01/22/2019 17:55	WG1226460
Dichlorodifluoromethane	U		0.000890	0.00272	1	01/26/2019 03:29	WG1228513
1,1-Dichloroethane	U		0.000626	0.00272	1	01/22/2019 17:55	WG1226460
1,2-Dichloroethane	U		0.000517	0.00272	1	01/22/2019 17:55	WG1226460
1,1-Dichloroethene	U		0.000544	0.00272	1	01/26/2019 03:29	WG1228513
cis-1,2-Dichloroethene	0.0147		0.000751	0.00272	1	01/26/2019 03:29	WG1228513
trans-1,2-Dichloroethene	U		0.00156	0.00544	1	01/22/2019 17:55	WG1226460
1,2-Dichloropropane	U		0.00138	0.00544	1	01/22/2019 17:55	WG1226460
1,1-Dichloropropene	U		0.000762	0.00272	1	01/22/2019 17:55	WG1226460
1,3-Dichloropropane	U		0.00190	0.00544	1	01/22/2019 17:55	WG1226460
cis-1,3-Dichloropropene	U		0.000738	0.00272	1	01/22/2019 17:55	WG1226460
trans-1,3-Dichloropropene	U		0.00166	0.00544	1	01/22/2019 17:55	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00152	0.00544	1	01/26/2019 03:29	WG1228513
2,2-Dichloropropane	U		0.000863	0.00272	1	01/22/2019 17:55	WG1226460
Di-isopropyl ether	U		0.000381	0.00109	1	01/26/2019 03:29	WG1228513
Ethylbenzene	U		0.000577	0.00272	1	01/22/2019 17:55	WG1226460
Hexachloro-1,3-butadiene	U	<u>JO</u>	0.0138	0.0272	1	01/22/2019 17:55	WG1226460
2-Hexanone	U		0.0109	0.0272	1	01/22/2019 17:55	WG1226460
n-Hexane	U		0.00115	0.00544	1	01/22/2019 17:55	WG1226460





Collected date/time: 01/17/19 10:15

L1062825

Volatile Organic Compounds (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		0.00658	0.0136	1	01/22/2019 17:55	WG1226460
Isopropylbenzene	U		0.000939	0.00272	1	01/22/2019 17:55	WG1226460
p-Isopropyltoluene	U		0.00254	0.00544	1	01/22/2019 17:55	WG1226460
2-Butanone (MEK)	U		0.0136	0.0272	1	01/22/2019 17:55	WG1226460
Methylene Chloride	U		0.00723	0.0272	1	01/22/2019 17:55	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0272	1	01/22/2019 17:55	WG1226460
Methyl tert-butyl ether	U		0.000321	0.00109	1	01/22/2019 17:55	WG1226460
Naphthalene	U		0.00340	0.0136	1	01/26/2019 03:29	WG1228513
n-Propylbenzene	U		0.00128	0.00544	1	01/22/2019 17:55	WG1226460
Styrene	U		0.00297	0.0136	1	01/22/2019 17:55	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000544	0.00272	1	01/22/2019 17:55	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000424	0.00272	1	01/26/2019 03:29	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.000735	0.00272	1	01/22/2019 17:55	WG1226460
Tetrachloroethene	0.0185		0.000762	0.00272	1	01/22/2019 17:55	WG1226460
Toluene	U		0.00136	0.00544	1	01/22/2019 17:55	WG1226460
1,2,3-Trichlorobenzene	U		0.000680	0.00272	1	01/26/2019 03:29	WG1228513
1,2,4-Trichlorobenzene	U		0.00525	0.0136	1	01/22/2019 17:55	WG1226460
1,1,1-Trichloroethane	U		0.000299	0.00272	1	01/22/2019 17:55	WG1226460
1,1,2-Trichloroethane	U		0.000961	0.00272	1	01/22/2019 17:55	WG1226460
Trichloroethene	0.0176		0.000435	0.00109	1	01/22/2019 17:55	WG1226460
Trichlorofluoromethane	U		0.000544	0.00272	1	01/22/2019 17:55	WG1226460
1,2,3-Trichloropropane	U		0.00555	0.0136	1	01/22/2019 17:55	WG1226460
1,2,4-Trimethylbenzene	U		0.00126	0.00544	1	01/22/2019 17:55	WG1226460
1,2,3-Trimethylbenzene	U	JO J4	0.00125	0.00544	1	01/22/2019 17:55	WG1226460
1,3,5-Trimethylbenzene	U		0.00118	0.00544	1	01/22/2019 17:55	WG1226460
Vinyl acetate	U	J4	0.00383	0.0136	1	01/22/2019 17:55	WG1226460
Vinyl chloride	0.00468		0.000743	0.00272	1	01/22/2019 17:55	WG1226460
Xylenes, Total	U		0.00520	0.00707	1	01/22/2019 17:55	WG1226460
(S) Toluene-d8	109			75.0-131		01/22/2019 17:55	WG1226460
(S) Toluene-d8	111			75.0-131		01/26/2019 03:29	WG1228513
(S) Dibromofluoromethane	86.9			65.0-129		01/22/2019 17:55	WG1226460
(S) Dibromofluoromethane	83.0			65.0-129		01/26/2019 03:29	WG1228513
(S) a,a,a-Trifluorotoluene	99.8			80.0-120		01/22/2019 17:55	WG1226460
(S) a,a,a-Trifluorotoluene	104			80.0-120		01/26/2019 03:29	WG1228513
(S) 4-Bromofluorobenzene	94.7			67.0-138		01/22/2019 17:55	WG1226460
(S) 4-Bromofluorobenzene	103			67.0-138		01/26/2019 03:29	WG1228513

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	81.6		1	01/23/2019 12:49	WG1226762

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	1.05	<u>J</u>	1.04	3.06	25	01/22/2019 16:48	WG1226536
(S) a,a,a-Trifluorotoluene(FID)	99.4			77.0-120		01/22/2019 16:48	WG1226536

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0168	0.0306	1	01/22/2019 18:17	WG1226460
Acrylonitrile	U		0.00233	0.0153	1	01/22/2019 18:17	WG1226460
Benzene	U		0.000490	0.00122	1	01/22/2019 18:17	WG1226460
Bromobenzene	U		0.00129	0.0153	1	01/22/2019 18:17	WG1226460
Bromodichloromethane	U		0.000965	0.00306	1	01/22/2019 18:17	WG1226460
Bromochloromethane	U		0.00138	0.00612	1	01/22/2019 18:17	WG1226460
Bromoform	U		0.00732	0.0306	1	01/22/2019 18:17	WG1226460
Bromomethane	U		0.00453	0.0153	1	01/22/2019 18:17	WG1226460
n-Butylbenzene	U		0.00470	0.0153	1	01/22/2019 18:17	WG1226460
sec-Butylbenzene	U		0.00310	0.0153	1	01/22/2019 18:17	WG1226460
tert-Butylbenzene	U		0.00190	0.00612	1	01/22/2019 18:17	WG1226460
Carbon disulfide	U		0.00497	0.0153	1	01/22/2019 18:17	WG1226460
Carbon tetrachloride	U		0.00132	0.00612	1	01/22/2019 18:17	WG1226460
Chlorobenzene	U		0.000702	0.00306	1	01/22/2019 18:17	WG1226460
Chlorodibromomethane	U		0.000551	0.00306	1	01/22/2019 18:17	WG1226460
Chloroethane	U		0.00132	0.00612	1	01/22/2019 18:17	WG1226460
Chloroform	U		0.000508	0.00306	1	01/22/2019 18:17	WG1226460
Chloromethane	U		0.00170	0.0153	1	01/22/2019 18:17	WG1226460
2-Chlorotoluene	U		0.00113	0.00306	1	01/22/2019 18:17	WG1226460
4-Chlorotoluene	U		0.00138	0.00612	1	01/22/2019 18:17	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00625	0.0306	1	01/26/2019 03:49	WG1228513
1,2-Dibromoethane	U		0.000643	0.00306	1	01/22/2019 18:17	WG1226460
Dibromomethane	U		0.00122	0.00612	1	01/22/2019 18:17	WG1226460
1,2-Dichlorobenzene	U		0.00178	0.00612	1	01/22/2019 18:17	WG1226460
1,3-Dichlorobenzene	U		0.00208	0.00612	1	01/22/2019 18:17	WG1226460
1,4-Dichlorobenzene	U		0.00241	0.00612	1	01/22/2019 18:17	WG1226460
Dichlorodifluoromethane	U		0.00100	0.00306	1	01/26/2019 03:49	WG1228513
1,1-Dichloroethane	U		0.000704	0.00306	1	01/22/2019 18:17	WG1226460
1,2-Dichloroethane	U		0.000582	0.00306	1	01/22/2019 18:17	WG1226460
1,1-Dichloroethene	U		0.000612	0.00306	1	01/26/2019 03:49	WG1228513
cis-1,2-Dichloroethene	0.0194		0.000845	0.00306	1	01/26/2019 03:49	WG1228513
trans-1,2-Dichloroethene	U		0.00175	0.00612	1	01/22/2019 18:17	WG1226460
1,2-Dichloropropane	U		0.00156	0.00612	1	01/22/2019 18:17	WG1226460
1,1-Dichloropropene	U		0.000857	0.00306	1	01/22/2019 18:17	WG1226460
1,3-Dichloropropane	U		0.00214	0.00612	1	01/22/2019 18:17	WG1226460
cis-1,3-Dichloropropene	U		0.000830	0.00306	1	01/22/2019 18:17	WG1226460
trans-1,3-Dichloropropene	U		0.00187	0.00612	1	01/22/2019 18:17	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00171	0.00612	1	01/26/2019 03:49	WG1228513
2,2-Dichloropropane	U		0.000971	0.00306	1	01/22/2019 18:17	WG1226460
Di-isopropyl ether	U		0.000429	0.00122	1	01/26/2019 03:49	WG1228513
Ethylbenzene	U		0.000649	0.00306	1	01/22/2019 18:17	WG1226460
Hexachloro-1,3-butadiene	U	<u>JO</u>	0.0156	0.0306	1	01/22/2019 18:17	WG1226460
2-Hexanone	U		0.0122	0.0306	1	01/22/2019 18:17	WG1226460
n-Hexane	0.00186	<u>B J</u>	0.00130	0.00612	1	01/22/2019 18:17	WG1226460

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/17/19 09:36

L1062825

Volatile Organic Compounds (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		0.00741	0.0153	1	01/22/2019 18:17	WG1226460
Isopropylbenzene	U		0.00106	0.00306	1	01/22/2019 18:17	WG1226460
p-Isopropyltoluene	U		0.00285	0.00612	1	01/22/2019 18:17	WG1226460
2-Butanone (MEK)	U		0.0153	0.0306	1	01/22/2019 18:17	WG1226460
Methylene Chloride	U		0.00813	0.0306	1	01/22/2019 18:17	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0122	0.0306	1	01/22/2019 18:17	WG1226460
Methyl tert-butyl ether	U		0.000361	0.00122	1	01/22/2019 18:17	WG1226460
Naphthalene	U		0.00382	0.0153	1	01/26/2019 03:49	WG1228513
n-Propylbenzene	U		0.00145	0.00612	1	01/22/2019 18:17	WG1226460
Styrene	U		0.00334	0.0153	1	01/22/2019 18:17	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000612	0.00306	1	01/22/2019 18:17	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000478	0.00306	1	01/26/2019 03:49	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.000827	0.00306	1	01/22/2019 18:17	WG1226460
Tetrachloroethene	0.0505		0.000857	0.00306	1	01/22/2019 18:17	WG1226460
Toluene	U		0.00153	0.00612	1	01/22/2019 18:17	WG1226460
1,2,3-Trichlorobenzene	U		0.000766	0.00306	1	01/26/2019 03:49	WG1228513
1,2,4-Trichlorobenzene	U		0.00590	0.0153	1	01/22/2019 18:17	WG1226460
1,1,1-Trichloroethane	U		0.000337	0.00306	1	01/22/2019 18:17	WG1226460
1,1,2-Trichloroethane	U		0.00108	0.00306	1	01/22/2019 18:17	WG1226460
Trichloroethene	0.0219		0.000490	0.00122	1	01/22/2019 18:17	WG1226460
Trichlorofluoromethane	U		0.000612	0.00306	1	01/22/2019 18:17	WG1226460
1,2,3-Trichloropropane	U		0.00625	0.0153	1	01/22/2019 18:17	WG1226460
1,2,4-Trimethylbenzene	U		0.00142	0.00612	1	01/22/2019 18:17	WG1226460
1,2,3-Trimethylbenzene	U	JO J4	0.00141	0.00612	1	01/22/2019 18:17	WG1226460
1,3,5-Trimethylbenzene	U		0.00132	0.00612	1	01/22/2019 18:17	WG1226460
Vinyl acetate	U	J4	0.00431	0.0153	1	01/22/2019 18:17	WG1226460
Vinyl chloride	U		0.000837	0.00306	1	01/22/2019 18:17	WG1226460
Xylenes, Total	U		0.00585	0.00796	1	01/22/2019 18:17	WG1226460
(S) Toluene-d8	107			75.0-131		01/22/2019 18:17	WG1226460
(S) Toluene-d8	112			75.0-131		01/26/2019 03:49	WG1228513
(S) Dibromofluoromethane	88.4			65.0-129		01/22/2019 18:17	WG1226460
(S) Dibromofluoromethane	86.0			65.0-129		01/26/2019 03:49	WG1228513
(S) a,a,a-Trifluorotoluene	99.7			80.0-120		01/22/2019 18:17	WG1226460
(S) a,a,a-Trifluorotoluene	104			80.0-120		01/26/2019 03:49	WG1228513
(S) 4-Bromofluorobenzene	90.3			67.0-138		01/22/2019 18:17	WG1226460
(S) 4-Bromofluorobenzene	105			67.0-138		01/26/2019 03:49	WG1228513

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

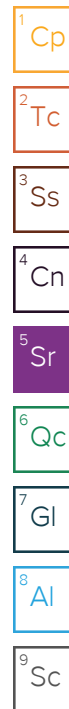
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.5		1	01/23/2019 12:49	WG1226762

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	0.969	<u>J</u>	0.948	2.79	25	01/22/2019 17:09	WG1226536
(S) a,a,a-Trifluorotoluene(FID)	98.1			77.0-120		01/22/2019 17:09	WG1226536

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0153	0.0279	1	01/22/2019 18:39	WG1226460
Acrylonitrile	U		0.00212	0.0140	1	01/22/2019 18:39	WG1226460
Benzene	U		0.000447	0.00112	1	01/22/2019 18:39	WG1226460
Bromobenzene	U		0.00117	0.0140	1	01/22/2019 18:39	WG1226460
Bromodichloromethane	U		0.000881	0.00279	1	01/22/2019 18:39	WG1226460
Bromochloromethane	U		0.00126	0.00559	1	01/22/2019 18:39	WG1226460
Bromoform	U		0.00668	0.0279	1	01/22/2019 18:39	WG1226460
Bromomethane	U		0.00414	0.0140	1	01/22/2019 18:39	WG1226460
n-Butylbenzene	U		0.00429	0.0140	1	01/22/2019 18:39	WG1226460
sec-Butylbenzene	U		0.00283	0.0140	1	01/22/2019 18:39	WG1226460
tert-Butylbenzene	U		0.00173	0.00559	1	01/22/2019 18:39	WG1226460
Carbon disulfide	U		0.00454	0.0140	1	01/22/2019 18:39	WG1226460
Carbon tetrachloride	U		0.00121	0.00559	1	01/22/2019 18:39	WG1226460
Chlorobenzene	U		0.000641	0.00279	1	01/22/2019 18:39	WG1226460
Chlorodibromomethane	U		0.000503	0.00279	1	01/22/2019 18:39	WG1226460
Chloroethane	U		0.00121	0.00559	1	01/22/2019 18:39	WG1226460
Chloroform	U		0.000464	0.00279	1	01/22/2019 18:39	WG1226460
Chloromethane	U		0.00155	0.0140	1	01/22/2019 18:39	WG1226460
2-Chlorotoluene	U		0.00103	0.00279	1	01/22/2019 18:39	WG1226460
4-Chlorotoluene	U		0.00126	0.00559	1	01/22/2019 18:39	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00570	0.0279	1	01/26/2019 04:10	WG1228513
1,2-Dibromoethane	U		0.000587	0.00279	1	01/22/2019 18:39	WG1226460
Dibromomethane	U		0.00112	0.00559	1	01/22/2019 18:39	WG1226460
1,2-Dichlorobenzene	U		0.00162	0.00559	1	01/22/2019 18:39	WG1226460
1,3-Dichlorobenzene	U		0.00190	0.00559	1	01/22/2019 18:39	WG1226460
1,4-Dichlorobenzene	U		0.00220	0.00559	1	01/22/2019 18:39	WG1226460
Dichlorodifluoromethane	U		0.000914	0.00279	1	01/26/2019 04:10	WG1228513
1,1-Dichloroethane	U		0.000643	0.00279	1	01/22/2019 18:39	WG1226460
1,2-Dichloroethane	U		0.000531	0.00279	1	01/22/2019 18:39	WG1226460
1,1-Dichloroethene	U		0.000559	0.00279	1	01/26/2019 04:10	WG1228513
cis-1,2-Dichloroethene	0.0157		0.000771	0.00279	1	01/26/2019 04:10	WG1228513
trans-1,2-Dichloroethene	U		0.00160	0.00559	1	01/22/2019 18:39	WG1226460
1,2-Dichloropropane	U		0.00142	0.00559	1	01/22/2019 18:39	WG1226460
1,1-Dichloropropene	U		0.000783	0.00279	1	01/22/2019 18:39	WG1226460
1,3-Dichloropropane	U		0.00196	0.00559	1	01/22/2019 18:39	WG1226460
cis-1,3-Dichloropropene	U		0.000758	0.00279	1	01/22/2019 18:39	WG1226460
trans-1,3-Dichloropropene	U		0.00171	0.00559	1	01/22/2019 18:39	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00157	0.00559	1	01/26/2019 04:10	WG1228513
2,2-Dichloropropane	U		0.000886	0.00279	1	01/22/2019 18:39	WG1226460
Di-isopropyl ether	U		0.000391	0.00112	1	01/26/2019 04:10	WG1228513
Ethylbenzene	U		0.000592	0.00279	1	01/22/2019 18:39	WG1226460
Hexachloro-1,3-butadiene	U	<u>JO</u>	0.0142	0.0279	1	01/22/2019 18:39	WG1226460
2-Hexanone	U		0.0112	0.0279	1	01/22/2019 18:39	WG1226460
n-Hexane	0.00244	<u>B J</u>	0.00118	0.00559	1	01/22/2019 18:39	WG1226460





Collected date/time: 01/17/19 10:25

L1062825

Volatile Organic Compounds (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		0.00676	0.0140	1	01/22/2019 18:39	WG1226460
Isopropylbenzene	U		0.000965	0.00279	1	01/22/2019 18:39	WG1226460
p-Isopropyltoluene	U		0.00260	0.00559	1	01/22/2019 18:39	WG1226460
2-Butanone (MEK)	U		0.0140	0.0279	1	01/22/2019 18:39	WG1226460
Methylene Chloride	U		0.00742	0.0279	1	01/22/2019 18:39	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0279	1	01/22/2019 18:39	WG1226460
Methyl tert-butyl ether	U		0.000330	0.00112	1	01/22/2019 18:39	WG1226460
Naphthalene	U		0.00349	0.0140	1	01/26/2019 04:10	WG1228513
n-Propylbenzene	U		0.00132	0.00559	1	01/22/2019 18:39	WG1226460
Styrene	U		0.00305	0.0140	1	01/22/2019 18:39	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000559	0.00279	1	01/22/2019 18:39	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000436	0.00279	1	01/26/2019 04:10	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.000755	0.00279	1	01/22/2019 18:39	WG1226460
Tetrachloroethene	0.123		0.000783	0.00279	1	01/22/2019 18:39	WG1226460
Toluene	U		0.00140	0.00559	1	01/22/2019 18:39	WG1226460
1,2,3-Trichlorobenzene	U		0.000699	0.00279	1	01/26/2019 04:10	WG1228513
1,2,4-Trichlorobenzene	U		0.00539	0.0140	1	01/22/2019 18:39	WG1226460
1,1,1-Trichloroethane	U		0.000307	0.00279	1	01/22/2019 18:39	WG1226460
1,1,2-Trichloroethane	U		0.000987	0.00279	1	01/22/2019 18:39	WG1226460
Trichloroethene	0.0284		0.000447	0.00112	1	01/22/2019 18:39	WG1226460
Trichlorofluoromethane	U		0.000559	0.00279	1	01/22/2019 18:39	WG1226460
1,2,3-Trichloropropane	U		0.00570	0.0140	1	01/22/2019 18:39	WG1226460
1,2,4-Trimethylbenzene	U		0.00130	0.00559	1	01/22/2019 18:39	WG1226460
1,2,3-Trimethylbenzene	U	JO J4	0.00129	0.00559	1	01/22/2019 18:39	WG1226460
1,3,5-Trimethylbenzene	U		0.00121	0.00559	1	01/22/2019 18:39	WG1226460
Vinyl acetate	U	J4	0.00393	0.0140	1	01/22/2019 18:39	WG1226460
Vinyl chloride	U		0.000764	0.00279	1	01/22/2019 18:39	WG1226460
Xylenes, Total	U		0.00534	0.00727	1	01/22/2019 18:39	WG1226460
(S) Toluene-d8	107			75.0-131		01/22/2019 18:39	WG1226460
(S) Toluene-d8	112			75.0-131		01/26/2019 04:10	WG1228513
(S) Dibromofluoromethane	88.2			65.0-129		01/22/2019 18:39	WG1226460
(S) Dibromofluoromethane	84.0			65.0-129		01/26/2019 04:10	WG1228513
(S) a,a,a-Trifluorotoluene	98.3			80.0-120		01/22/2019 18:39	WG1226460
(S) a,a,a-Trifluorotoluene	101			80.0-120		01/26/2019 04:10	WG1228513
(S) 4-Bromofluorobenzene	94.8			67.0-138		01/22/2019 18:39	WG1226460
(S) 4-Bromofluorobenzene	104			67.0-138		01/26/2019 04:10	WG1228513

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

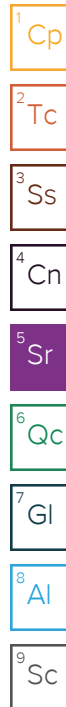
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.4		1	01/23/2019 11:13	WG1226766

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	1.18	<u>J</u>	0.971	2.86	25	01/22/2019 17:30	WG1226536
(S) a,a,a-Trifluorotoluene(FID)	94.6			77.0-120		01/22/2019 17:30	WG1226536

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0157	0.0286	1	01/22/2019 19:02	WG1226460
Acrylonitrile	U		0.00217	0.0143	1	01/22/2019 19:02	WG1226460
Benzene	U		0.000458	0.00114	1	01/22/2019 19:02	WG1226460
Bromobenzene	U		0.00120	0.0143	1	01/22/2019 19:02	WG1226460
Bromodichloromethane	U		0.000902	0.00286	1	01/22/2019 19:02	WG1226460
Bromochloromethane	U		0.00129	0.00572	1	01/22/2019 19:02	WG1226460
Bromoform	U		0.00684	0.0286	1	01/22/2019 19:02	WG1226460
Bromomethane	U		0.00423	0.0143	1	01/22/2019 19:02	WG1226460
n-Butylbenzene	U		0.00439	0.0143	1	01/22/2019 19:02	WG1226460
sec-Butylbenzene	U		0.00290	0.0143	1	01/22/2019 19:02	WG1226460
tert-Butylbenzene	U		0.00177	0.00572	1	01/22/2019 19:02	WG1226460
Carbon disulfide	U		0.00465	0.0143	1	01/22/2019 19:02	WG1226460
Carbon tetrachloride	U		0.00124	0.00572	1	01/22/2019 19:02	WG1226460
Chlorobenzene	U		0.000656	0.00286	1	01/22/2019 19:02	WG1226460
Chlorodibromomethane	U		0.000515	0.00286	1	01/22/2019 19:02	WG1226460
Chloroethane	U		0.00124	0.00572	1	01/22/2019 19:02	WG1226460
Chloroform	U		0.000475	0.00286	1	01/22/2019 19:02	WG1226460
Chloromethane	U		0.00159	0.0143	1	01/22/2019 19:02	WG1226460
2-Chlorotoluene	U		0.00105	0.00286	1	01/22/2019 19:02	WG1226460
4-Chlorotoluene	U		0.00129	0.00572	1	01/22/2019 19:02	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00584	0.0286	1	01/26/2019 04:30	WG1228513
1,2-Dibromoethane	U		0.000601	0.00286	1	01/22/2019 19:02	WG1226460
Dibromomethane	U		0.00114	0.00572	1	01/22/2019 19:02	WG1226460
1,2-Dichlorobenzene	U		0.00166	0.00572	1	01/22/2019 19:02	WG1226460
1,3-Dichlorobenzene	U		0.00195	0.00572	1	01/22/2019 19:02	WG1226460
1,4-Dichlorobenzene	U		0.00225	0.00572	1	01/22/2019 19:02	WG1226460
Dichlorodifluoromethane	U		0.000936	0.00286	1	01/26/2019 04:30	WG1228513
1,1-Dichloroethane	U		0.000658	0.00286	1	01/22/2019 19:02	WG1226460
1,2-Dichloroethane	U		0.000544	0.00286	1	01/22/2019 19:02	WG1226460
1,1-Dichloroethene	U		0.000572	0.00286	1	01/26/2019 04:30	WG1228513
cis-1,2-Dichloroethene	0.0852		0.000790	0.00286	1	01/26/2019 04:30	WG1228513
trans-1,2-Dichloroethene	U		0.00164	0.00572	1	01/22/2019 19:02	WG1226460
1,2-Dichloropropane	U		0.00145	0.00572	1	01/22/2019 19:02	WG1226460
1,1-Dichloropropene	U		0.000801	0.00286	1	01/22/2019 19:02	WG1226460
1,3-Dichloropropane	U		0.00200	0.00572	1	01/22/2019 19:02	WG1226460
cis-1,3-Dichloropropene	U		0.000776	0.00286	1	01/22/2019 19:02	WG1226460
trans-1,3-Dichloropropene	U		0.00175	0.00572	1	01/22/2019 19:02	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00160	0.00572	1	01/26/2019 04:30	WG1228513
2,2-Dichloropropane	U		0.000908	0.00286	1	01/22/2019 19:02	WG1226460
Di-isopropyl ether	U		0.000401	0.00114	1	01/26/2019 04:30	WG1228513
Ethylbenzene	U		0.000607	0.00286	1	01/22/2019 19:02	WG1226460
Hexachloro-1,3-butadiene	U	<u>JO</u>	0.0145	0.0286	1	01/22/2019 19:02	WG1226460
2-Hexanone	U		0.0114	0.0286	1	01/22/2019 19:02	WG1226460
n-Hexane	U		0.00121	0.00572	1	01/22/2019 19:02	WG1226460





Collected date/time: 01/17/19 10:40

L1062825

Volatile Organic Compounds (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		0.00692	0.0143	1	01/22/2019 19:02	WG1226460
Isopropylbenzene	U		0.000988	0.00286	1	01/22/2019 19:02	WG1226460
p-Isopropyltoluene	U		0.00267	0.00572	1	01/22/2019 19:02	WG1226460
2-Butanone (MEK)	U		0.0143	0.0286	1	01/22/2019 19:02	WG1226460
Methylene Chloride	U		0.00760	0.0286	1	01/22/2019 19:02	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0286	1	01/22/2019 19:02	WG1226460
Methyl tert-butyl ether	U		0.000338	0.00114	1	01/22/2019 19:02	WG1226460
Naphthalene	U		0.00357	0.0143	1	01/26/2019 04:30	WG1228513
n-Propylbenzene	U		0.00135	0.00572	1	01/22/2019 19:02	WG1226460
Styrene	U		0.00312	0.0143	1	01/22/2019 19:02	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000572	0.00286	1	01/22/2019 19:02	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000446	0.00286	1	01/26/2019 04:30	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.000773	0.00286	1	01/22/2019 19:02	WG1226460
Tetrachloroethene	0.478		0.000801	0.00286	1	01/22/2019 19:02	WG1226460
Toluene	U		0.00143	0.00572	1	01/22/2019 19:02	WG1226460
1,2,3-Trichlorobenzene	U		0.000715	0.00286	1	01/26/2019 04:30	WG1228513
1,2,4-Trichlorobenzene	U		0.00552	0.0143	1	01/22/2019 19:02	WG1226460
1,1,1-Trichloroethane	U		0.000315	0.00286	1	01/22/2019 19:02	WG1226460
1,1,2-Trichloroethane	U		0.00101	0.00286	1	01/22/2019 19:02	WG1226460
Trichloroethene	0.139		0.000458	0.00114	1	01/22/2019 19:02	WG1226460
Trichlorofluoromethane	U		0.000572	0.00286	1	01/22/2019 19:02	WG1226460
1,2,3-Trichloropropane	U		0.00584	0.0143	1	01/22/2019 19:02	WG1226460
1,2,4-Trimethylbenzene	U		0.00133	0.00572	1	01/22/2019 19:02	WG1226460
1,2,3-Trimethylbenzene	U	JO J4	0.00132	0.00572	1	01/22/2019 19:02	WG1226460
1,3,5-Trimethylbenzene	U		0.00124	0.00572	1	01/22/2019 19:02	WG1226460
Vinyl acetate	U	J4	0.00403	0.0143	1	01/22/2019 19:02	WG1226460
Vinyl chloride	0.000989	J	0.000782	0.00286	1	01/22/2019 19:02	WG1226460
Xylenes, Total	U		0.00547	0.00744	1	01/22/2019 19:02	WG1226460
(S) Toluene-d8	107			75.0-131		01/22/2019 19:02	WG1226460
(S) Toluene-d8	109			75.0-131		01/26/2019 04:30	WG1228513
(S) Dibromofluoromethane	87.8			65.0-129		01/22/2019 19:02	WG1226460
(S) Dibromofluoromethane	83.7			65.0-129		01/26/2019 04:30	WG1228513
(S) a,a,a-Trifluorotoluene	101			80.0-120		01/22/2019 19:02	WG1226460
(S) a,a,a-Trifluorotoluene	110			80.0-120		01/26/2019 04:30	WG1228513
(S) 4-Bromofluorobenzene	92.3			67.0-138		01/22/2019 19:02	WG1226460
(S) 4-Bromofluorobenzene	103			67.0-138		01/26/2019 04:30	WG1228513

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

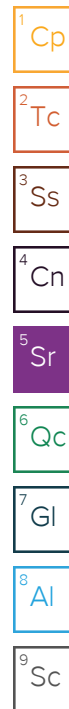
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.6		1	01/23/2019 11:13	WG1226766

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	1.69	<u>J</u>	0.979	2.89	25	01/22/2019 17:52	WG1226536
(S) a,a,a-Trifluorotoluene(FID)	97.5			77.0-120		01/22/2019 17:52	WG1226536

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0158	0.0289	1	01/22/2019 19:24	WG1226460
Acrylonitrile	U		0.00219	0.0144	1	01/22/2019 19:24	WG1226460
Benzene	U		0.000462	0.00116	1	01/22/2019 19:24	WG1226460
Bromobenzene	U		0.00121	0.0144	1	01/22/2019 19:24	WG1226460
Bromodichloromethane	U		0.000910	0.00289	1	01/22/2019 19:24	WG1226460
Bromochloromethane	U		0.00131	0.00578	1	01/22/2019 19:24	WG1226460
Bromoform	U		0.00691	0.0289	1	01/22/2019 19:24	WG1226460
Bromomethane	U		0.00427	0.0144	1	01/22/2019 19:24	WG1226460
n-Butylbenzene	U		0.00444	0.0144	1	01/22/2019 19:24	WG1226460
sec-Butylbenzene	U		0.00292	0.0144	1	01/22/2019 19:24	WG1226460
tert-Butylbenzene	U		0.00179	0.00578	1	01/22/2019 19:24	WG1226460
Carbon disulfide	U		0.00469	0.0144	1	01/22/2019 19:24	WG1226460
Carbon tetrachloride	U		0.00125	0.00578	1	01/22/2019 19:24	WG1226460
Chlorobenzene	U		0.000662	0.00289	1	01/22/2019 19:24	WG1226460
Chlorodibromomethane	U		0.000520	0.00289	1	01/22/2019 19:24	WG1226460
Chloroethane	U		0.00125	0.00578	1	01/22/2019 19:24	WG1226460
Chloroform	U		0.000479	0.00289	1	01/22/2019 19:24	WG1226460
Chloromethane	U		0.00161	0.0144	1	01/22/2019 19:24	WG1226460
2-Chlorotoluene	U		0.00106	0.00289	1	01/22/2019 19:24	WG1226460
4-Chlorotoluene	U		0.00131	0.00578	1	01/22/2019 19:24	WG1226460
1,2-Dibromo-3-Chloropropane	U		0.00589	0.0289	1	01/26/2019 04:50	WG1228513
1,2-Dibromoethane	U		0.000606	0.00289	1	01/22/2019 19:24	WG1226460
Dibromomethane	U		0.00116	0.00578	1	01/22/2019 19:24	WG1226460
1,2-Dichlorobenzene	U		0.00167	0.00578	1	01/22/2019 19:24	WG1226460
1,3-Dichlorobenzene	U		0.00196	0.00578	1	01/22/2019 19:24	WG1226460
1,4-Dichlorobenzene	U		0.00228	0.00578	1	01/22/2019 19:24	WG1226460
Dichlorodifluoromethane	U		0.000945	0.00289	1	01/26/2019 04:50	WG1228513
1,1-Dichloroethane	U		0.000664	0.00289	1	01/22/2019 19:24	WG1226460
1,2-Dichloroethane	U		0.000549	0.00289	1	01/22/2019 19:24	WG1226460
1,1-Dichloroethene	U		0.000578	0.00289	1	01/26/2019 04:50	WG1228513
cis-1,2-Dichloroethene	0.199		0.000797	0.00289	1	01/26/2019 04:50	WG1228513
trans-1,2-Dichloroethene	0.00268	<u>J</u>	0.00165	0.00578	1	01/22/2019 19:24	WG1226460
1,2-Dichloropropane	U		0.00147	0.00578	1	01/22/2019 19:24	WG1226460
1,1-Dichloropropene	U		0.000809	0.00289	1	01/22/2019 19:24	WG1226460
1,3-Dichloropropane	U		0.00202	0.00578	1	01/22/2019 19:24	WG1226460
cis-1,3-Dichloropropene	U		0.000783	0.00289	1	01/22/2019 19:24	WG1226460
trans-1,3-Dichloropropene	U		0.00177	0.00578	1	01/22/2019 19:24	WG1226460
trans-1,4-Dichloro-2-butene	U		0.00162	0.00578	1	01/26/2019 04:50	WG1228513
2,2-Dichloropropane	U		0.000916	0.00289	1	01/22/2019 19:24	WG1226460
Di-isopropyl ether	U		0.000404	0.00116	1	01/26/2019 04:50	WG1228513
Ethylbenzene	U		0.000612	0.00289	1	01/22/2019 19:24	WG1226460
Hexachloro-1,3-butadiene	U	<u>JO</u>	0.0147	0.0289	1	01/22/2019 19:24	WG1226460
2-Hexanone	U		0.0116	0.0289	1	01/22/2019 19:24	WG1226460
n-Hexane	0.00283	<u>B J</u>	0.00122	0.00578	1	01/22/2019 19:24	WG1226460





Collected date/time: 01/17/19 11:05

L1062825

Volatile Organic Compounds (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		0.00699	0.0144	1	01/22/2019 19:24	WG1226460
Isopropylbenzene	U		0.000997	0.00289	1	01/22/2019 19:24	WG1226460
p-Isopropyltoluene	U		0.00269	0.00578	1	01/22/2019 19:24	WG1226460
2-Butanone (MEK)	U		0.0144	0.0289	1	01/22/2019 19:24	WG1226460
Methylene Chloride	U		0.00767	0.0289	1	01/22/2019 19:24	WG1226460
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0289	1	01/22/2019 19:24	WG1226460
Methyl tert-butyl ether	U		0.000341	0.00116	1	01/22/2019 19:24	WG1226460
Naphthalene	U		0.00360	0.0144	1	01/26/2019 04:50	WG1228513
n-Propylbenzene	U		0.00136	0.00578	1	01/22/2019 19:24	WG1226460
Styrene	U		0.00315	0.0144	1	01/22/2019 19:24	WG1226460
1,1,1,2-Tetrachloroethane	U		0.000578	0.00289	1	01/22/2019 19:24	WG1226460
1,1,2,2-Tetrachloroethane	U		0.000450	0.00289	1	01/26/2019 04:50	WG1228513
1,1,2-Trichlorotrifluoroethane	U		0.000780	0.00289	1	01/22/2019 19:24	WG1226460
Tetrachloroethene	1.71		0.000809	0.00289	1	01/22/2019 19:24	WG1226460
Toluene	U		0.00144	0.00578	1	01/22/2019 19:24	WG1226460
1,2,3-Trichlorobenzene	U		0.000722	0.00289	1	01/26/2019 04:50	WG1228513
1,2,4-Trichlorobenzene	U		0.00557	0.0144	1	01/22/2019 19:24	WG1226460
1,1,1-Trichloroethane	U		0.000318	0.00289	1	01/22/2019 19:24	WG1226460
1,1,2-Trichloroethane	U		0.00102	0.00289	1	01/22/2019 19:24	WG1226460
Trichloroethene	0.274		0.000462	0.00116	1	01/22/2019 19:24	WG1226460
Trichlorofluoromethane	U		0.000578	0.00289	1	01/22/2019 19:24	WG1226460
1,2,3-Trichloropropane	U		0.00589	0.0144	1	01/22/2019 19:24	WG1226460
1,2,4-Trimethylbenzene	U		0.00134	0.00578	1	01/22/2019 19:24	WG1226460
1,2,3-Trimethylbenzene	U	JO J4	0.00133	0.00578	1	01/22/2019 19:24	WG1226460
1,3,5-Trimethylbenzene	U		0.00125	0.00578	1	01/22/2019 19:24	WG1226460
Vinyl acetate	U	J4	0.00407	0.0144	1	01/22/2019 19:24	WG1226460
Vinyl chloride	0.00154	J	0.000789	0.00289	1	01/22/2019 19:24	WG1226460
Xylenes, Total	U		0.00552	0.00751	1	01/22/2019 19:24	WG1226460
(S) Toluene-d8	106			75.0-131		01/22/2019 19:24	WG1226460
(S) Toluene-d8	110			75.0-131		01/26/2019 04:50	WG1228513
(S) Dibromofluoromethane	85.8			65.0-129		01/22/2019 19:24	WG1226460
(S) Dibromofluoromethane	83.2			65.0-129		01/26/2019 04:50	WG1228513
(S) a,a,a-Trifluorotoluene	99.3			80.0-120		01/22/2019 19:24	WG1226460
(S) a,a,a-Trifluorotoluene	109			80.0-120		01/26/2019 04:50	WG1228513
(S) 4-Bromofluorobenzene	95.9			67.0-138		01/22/2019 19:24	WG1226460
(S) 4-Bromofluorobenzene	103			67.0-138		01/26/2019 04:50	WG1228513

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



Method Blank (MB)

(MB) R3378207-1 01/23/19 12:49

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

L1062825-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1062825-05 01/23/19 12:49 • (DUP) R3378207-3 01/23/19 12:49

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	91.9	89.0	1	3.19		10

Laboratory Control Sample (LCS)

(LCS) R3378207-2 01/23/19 12:49

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

Cp

 ${}^2\text{Tc}$

Ss

 C_n ⁸⁷Sr

Qc

G|

Al

Sc



Total Solids by Method 2540 G-2011

L1062825-08,09

Method Blank (MB)

(MB) R3378204-1 01/23/19 11:13

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

L1062833-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1062833-01 01/23/19 11:13 • (DUP) R3378204-3 01/23/19 11:13

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	82.0	85.0	1	3.56		10

Laboratory Control Sample (LCS)

(LCS) R3378204-2 01/23/19 11:13

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Total Solids	50.0	50.0	100	85.0-115	

¹Cp ${}^2\text{Tc}$ ${}^3S_S$ ${}^4\text{Cn}$ ${}^5\text{Sr}$ ${}^6\text{Qc}$

GI

 ${}^8\text{Al}$ ⁹Sc



Method Blank (MB)

(MB) R3378256-3 01/22/19 10:15

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)	94.8			77.0-120

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) R3378256-1 01/22/19 09:11 • (LCSD) R3378256-2 01/22/19 09:32

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 %
Gasoline Range Organics-NWTPH	5.50	5.40	5.28	98.3	95.9	71.0-124			2.39	20
(S) a,a,a-Trifluorotoluene(FID)				110	110	77.0-120				

L1062825-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1062825-09 01/22/19 17:52 • (MS) R3378256-4 01/22/19 18:13 • (MSD) R3378256-5 01/22/19 18:34

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	6.35	1.69	36.7	36.0	22.0	21.6	25	10.0-149			2.01	27
(S) a,a,a-Trifluorotoluene(FID)					95.6	96.3		77.0-120				



Method Blank (MB)

(MB) R3378699-2 01/22/19 10:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250
n-Hexane	0.00249	U	0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3378699-2 01/22/19 10:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	0.0180	⌵	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	110			75.0-131
(S) Dibromofluoromethane	83.8			65.0-129
(S) a,a,a-Trifluorotoluene	99.1			80.0-120
(S) 4-Bromofluorobenzene	97.0			67.0-138

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R3378699-1 01/22/19 09:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.677	108	10.0-160	
Acrylonitrile	0.625	0.571	91.4	45.0-153	
Benzene	0.125	0.121	96.7	70.0-123	
Bromobenzene	0.125	0.109	87.0	73.0-121	
Bromodichloromethane	0.125	0.124	99.1	73.0-121	
Bromochloromethane	0.125	0.129	103	77.0-128	



Laboratory Control Sample (LCS)

(LCS) R3378699-1 01/22/19 09:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromoform	0.125	0.104	82.8	64.0-132	
Bromomethane	0.125	0.152	121	56.0-147	
n-Butylbenzene	0.125	0.112	89.5	68.0-135	
sec-Butylbenzene	0.125	0.108	86.1	74.0-130	
tert-Butylbenzene	0.125	0.111	89.2	75.0-127	
Carbon disulfide	0.125	0.110	87.8	56.0-133	
Carbon tetrachloride	0.125	0.125	100	66.0-128	
Chlorobenzene	0.125	0.123	98.7	76.0-128	
Chlorodibromomethane	0.125	0.106	85.0	74.0-127	
Chloroethane	0.125	0.135	108	61.0-134	
Chloroform	0.125	0.120	95.6	72.0-123	
Chloromethane	0.125	0.130	104	51.0-138	
2-Chlorotoluene	0.125	0.119	95.5	75.0-124	
4-Chlorotoluene	0.125	0.110	87.8	75.0-124	
1,2-Dibromoethane	0.125	0.121	96.5	74.0-128	
Dibromomethane	0.125	0.117	93.8	75.0-122	
1,2-Dichlorobenzene	0.125	0.126	100	76.0-124	
1,3-Dichlorobenzene	0.125	0.123	98.1	76.0-125	
1,4-Dichlorobenzene	0.125	0.121	96.4	77.0-121	
1,1-Dichloroethane	0.125	0.117	93.3	70.0-127	
1,2-Dichloroethane	0.125	0.133	106	65.0-131	
trans-1,2-Dichloroethene	0.125	0.120	96.2	71.0-125	
1,2-Dichloropropane	0.125	0.129	103	74.0-125	
1,1-Dichloropropene	0.125	0.116	92.7	73.0-125	
1,3-Dichloropropane	0.125	0.127	101	80.0-125	
cis-1,3-Dichloropropene	0.125	0.121	96.8	76.0-127	
trans-1,3-Dichloropropene	0.125	0.115	91.7	73.0-127	
2,2-Dichloropropane	0.125	0.136	108	59.0-135	
Ethylbenzene	0.125	0.123	98.6	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.0995	79.6	57.0-150	
2-Hexanone	0.625	0.514	82.2	54.0-147	
n-Hexane	0.125	0.148	118	55.0-137	
Iodomethane	0.625	0.629	101	74.0-134	
Isopropylbenzene	0.125	0.112	89.6	72.0-127	
p-Isopropyltoluene	0.125	0.113	90.0	72.0-133	
2-Butanone (MEK)	0.625	0.590	94.3	30.0-160	
Methylene Chloride	0.125	0.120	96.3	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.569	91.0	56.0-143	
Methyl tert-butyl ether	0.125	0.117	94.0	66.0-132	
n-Propylbenzene	0.125	0.116	92.5	74.0-126	

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



Laboratory Control Sample (LCS)

(LCS) R3378699-1 01/22/19 09:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Styrene	0.125	0.115	91.7	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.117	93.9	74.0-129	
Tetrachloroethene	0.125	0.137	109	70.0-136	
Toluene	0.125	0.127	102	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.125	100	61.0-139	
1,2,4-Trichlorobenzene	0.125	0.100	80.3	62.0-137	
1,1,1-Trichloroethane	0.125	0.122	97.7	69.0-126	
1,1,2-Trichloroethane	0.125	0.123	98.5	78.0-123	
Trichloroethene	0.125	0.123	98.4	76.0-126	
Trichlorofluoromethane	0.125	0.137	109	61.0-142	
1,2,3-Trichloropropane	0.125	0.113	90.6	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.0880	70.4	74.0-124	J4
1,2,4-Trimethylbenzene	0.125	0.111	89.0	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.113	90.7	73.0-127	
Vinyl acetate	0.625	1.12	179	43.0-159	J4
Vinyl chloride	0.125	0.138	110	63.0-134	
Xylenes, Total	0.375	0.369	98.4	72.0-127	
(S) Toluene-d8			100	75.0-131	
(S) Dibromofluoromethane			91.0	65.0-129	
(S) a,a,a-Trifluorotoluene			100	80.0-120	
(S) 4-Bromofluorobenzene			87.6	67.0-138	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3378929-2 01/25/19 23:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Naphthalene	U		0.00312	0.0125
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
(S) Toluene-d8	108			75.0-131
(S) Dibromofluoromethane	78.6			65.0-129
(S) a,a,a-Trifluorotoluene	114			80.0-120
(S) 4-Bromofluorobenzene	101			67.0-138

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3378929-1 01/25/19 21:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2-Dibromo-3-Chloropropane	0.125	0.156	125	59.0-130	
trans-1,4-Dichloro-2-butene	0.125	0.109	87.3	45.0-143	
Dichlorodifluoromethane	0.125	0.164	131	43.0-156	
1,1-Dichloroethene	0.125	0.114	91.0	65.0-131	
cis-1,2-Dichloroethene	0.125	0.0964	77.1	73.0-125	
Di-isopropyl ether	0.125	0.101	80.5	60.0-136	
Naphthalene	0.125	0.121	97.0	59.0-130	
1,1,2,2-Tetrachloroethane	0.125	0.100	80.1	68.0-128	
1,2,3-Trichlorobenzene	0.125	0.134	107	59.0-139	
(S) Toluene-d8			107	75.0-131	
(S) Dibromofluoromethane			94.5	65.0-129	
(S) a,a,a-Trifluorotoluene			105	80.0-120	
(S) 4-Bromofluorobenzene			100	67.0-138	



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, the sample preparation volume or weight values differ from the standard, 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.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
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.
JO	JO: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
J4	The associated batch QC was outside the established quality control range for accuracy.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc



Pace National 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.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN2000002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

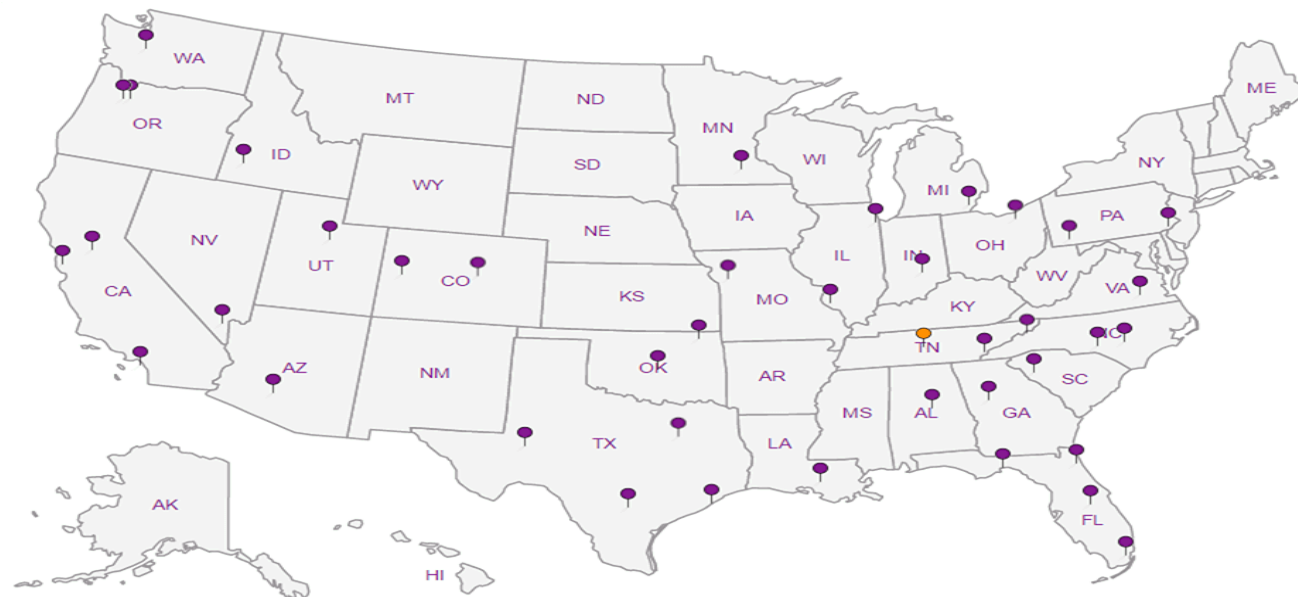
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National 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. Pace National 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
Click

Analysis / Container / Preservative

Chain of Custody Page 1 of 1



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



Report to:
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;
bhaldeman@pesenv.com;

Project
Description: American Linen

City/State
Collected: SEATTLE WA

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

Client Project #
1413.001.05.601

Lab Project #
PESENVSWA-ALP

Collected by (print):
R. McLaughlin

Site/Facility ID #
AMERICAN LINEN

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Immediately
Packed on Ice N Y

Same Day ☒ Five Day
Next Day ☐ 5 Day (Rad Only)
Two Day ☐ 10 Day (Rad Only)
Three Day ☐

Date Results Needed

No.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
B1D1-11	GRAB	SS	11	1/17/19	0935	2
B1D1-15		SS	15		0915	
B1D1-20		SS	20		1005	
B1D1-25		SS	25		0958	
B1D1-31		SS	31		1015	
B1D1-35		GW	35		0936	
B1D1-40			40		1025	
B1D1-45	X		45	X	1040	
B1D1-50	X		50	X	1105	X

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

Remarks:

Samples returned via:
UPS FedEx Courier

Tracking #

Relinquished by: (Signature)

Date: 1-18-19
Time: 1500

Received by: (Signature)

Trip Blank Received: Yes/No
HCL / MeOH
TBR

Relinquished by: (Signature)

Date: Time:

Received by: (Signature)

Temp: 1.2 °C
1.0 °F
Bottles Received: 18

Relinquished by: (Signature)

Date: Time:

Received for lab by: (Signature)

Date: 1/19/19
Time: 920

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
RAD SCREEN: <0.5 mR/hr

If preservation required by Login: Date/Time
Hold: Condition: NCF / OK

January 30, 2019

PES Environmental, Inc.- WA

Sample Delivery Group: L1063347
Samples Received: 01/23/2019
Project Number: 1413.001.05.501
Description: American Linen
Site: AMERICAN LINEN
Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:



Jason Romer
Project Manager

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 Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Sr: Sample Results	5	³ Ss
A9C9-3 L1063347-01	5	
A9C9-6 L1063347-02	7	⁴ Cn
A9C9-10 L1063347-03	9	⁵ Sr
B2D2-10 L1063347-04	11	
TB-012219 L1063347-05	13	⁶ Qc
Qc: Quality Control Summary	15	⁷ Gl
Total Solids by Method 2540 G-2011	15	
Volatile Organic Compounds (GC) by Method NWTPHGX	16	⁸ Al
Volatile Organic Compounds (GC/MS) by Method 8260C	18	
Gl: Glossary of Terms	27	⁹ Sc
Al: Accreditations & Locations	28	
Sc: Sample Chain of Custody	29	



A9C9-3 L1063347-01 Solid

			Collected by BH/RM	Collected date/time 01/21/19 09:20	Received date/time 01/23/19 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1227645	1	01/24/19 16:50	01/24/19 17:02	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228076	1.16	01/21/19 09:20	01/24/19 20:24	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228359	1.16	01/21/19 09:20	01/26/19 05:10	BMB

¹ Cp² Tc³ Ss

A9C9-6 L1063347-02 Solid

			Collected by BH/RM	Collected date/time 01/21/19 09:30	Received date/time 01/23/19 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1227645	1	01/24/19 16:50	01/24/19 17:02	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228076	1	01/21/19 09:30	01/24/19 20:47	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228359	1	01/21/19 12:01	01/26/19 05:31	BMB

⁴ Cn⁵ Sr⁶ Qc

A9C9-10 L1063347-03 Solid

			Collected by BH/RM	Collected date/time 01/21/19 10:10	Received date/time 01/23/19 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1227645	1	01/24/19 16:50	01/24/19 17:02	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228076	1	01/21/19 10:10	01/24/19 21:09	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228359	1	01/21/19 10:10	01/26/19 05:50	BMB

⁷ Gl⁸ Al⁹ Sc

B2D2-10 L1063347-04 Solid

			Collected by BH/RM	Collected date/time 01/21/19 09:40	Received date/time 01/23/19 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1227645	1	01/24/19 16:50	01/24/19 17:02	KDW
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1227399	29.5	01/21/19 09:40	01/23/19 15:56	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228076	1.19	01/21/19 09:40	01/24/19 21:31	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228359	1.18	01/21/19 12:01	01/26/19 06:10	BMB

TB-012219 L1063347-05 GW

			Collected by BH/RM	Collected date/time 01/22/19 11:00	Received date/time 01/23/19 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1227438	1	01/23/19 15:34	01/23/19 15:34	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1227840	1	01/24/19 12:03	01/24/19 12:03	CAH



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, 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.

Jason Romer
Project Manager

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	68.7		1	01/24/2019 17:02	WG1227645

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0265	B J	0.0231	0.0422	1.16	01/24/2019 20:24	WG1228076
Acrylonitrile	U		0.00320	0.0211	1.16	01/24/2019 20:24	WG1228076
Benzene	0.141		0.000675	0.00169	1.16	01/24/2019 20:24	WG1228076
Bromobenzene	U		0.00178	0.0211	1.16	01/24/2019 20:24	WG1228076
Bromodichloromethane	U		0.00133	0.00422	1.16	01/24/2019 20:24	WG1228076
Bromochloromethane	U		0.00191	0.00844	1.16	01/24/2019 20:24	WG1228076
Bromoform	U	JO	0.0101	0.0422	1.16	01/24/2019 20:24	WG1228076
Bromomethane	U		0.00624	0.0211	1.16	01/24/2019 20:24	WG1228076
n-Butylbenzene	U		0.00648	0.0211	1.16	01/24/2019 20:24	WG1228076
sec-Butylbenzene	U		0.00426	0.0211	1.16	01/24/2019 20:24	WG1228076
tert-Butylbenzene	U		0.00262	0.00844	1.16	01/24/2019 20:24	WG1228076
Carbon disulfide	U		0.00685	0.0211	1.16	01/24/2019 20:24	WG1228076
Carbon tetrachloride	U		0.00182	0.00844	1.16	01/24/2019 20:24	WG1228076
Chlorobenzene	U		0.000968	0.00422	1.16	01/24/2019 20:24	WG1228076
Chlorodibromomethane	U		0.000760	0.00422	1.16	01/24/2019 20:24	WG1228076
Chloroethane	U		0.00182	0.00844	1.16	01/24/2019 20:24	WG1228076
Chloroform	U		0.000700	0.00422	1.16	01/24/2019 20:24	WG1228076
Chloromethane	U		0.00234	0.0211	1.16	01/24/2019 20:24	WG1228076
2-Chlorotoluene	U		0.00156	0.00422	1.16	01/24/2019 20:24	WG1228076
4-Chlorotoluene	U		0.00191	0.00844	1.16	01/24/2019 20:24	WG1228076
1,2-Dibromo-3-Chloropropane	U		0.00861	0.0422	1.16	01/26/2019 05:10	WG1228359
1,2-Dibromoethane	U		0.000886	0.00422	1.16	01/24/2019 20:24	WG1228076
Dibromomethane	U		0.00169	0.00844	1.16	01/24/2019 20:24	WG1228076
1,2-Dichlorobenzene	U		0.00244	0.00844	1.16	01/24/2019 20:24	WG1228076
1,3-Dichlorobenzene	U		0.00287	0.00844	1.16	01/24/2019 20:24	WG1228076
1,4-Dichlorobenzene	U		0.00332	0.00844	1.16	01/24/2019 20:24	WG1228076
Dichlorodifluoromethane	U		0.00138	0.00422	1.16	01/26/2019 05:10	WG1228359
1,1-Dichloroethane	U		0.000971	0.00422	1.16	01/24/2019 20:24	WG1228076
1,2-Dichloroethane	U		0.000802	0.00422	1.16	01/24/2019 20:24	WG1228076
1,1-Dichloroethene	U		0.000844	0.00422	1.16	01/26/2019 05:10	WG1228359
cis-1,2-Dichloroethene	U		0.00116	0.00422	1.16	01/26/2019 05:10	WG1228359
trans-1,2-Dichloroethene	U		0.00242	0.00844	1.16	01/24/2019 20:24	WG1228076
1,2-Dichloropropane	U		0.00214	0.00844	1.16	01/24/2019 20:24	WG1228076
1,1-Dichloropropene	U		0.00118	0.00422	1.16	01/24/2019 20:24	WG1228076
1,3-Dichloropropane	U		0.00295	0.00844	1.16	01/24/2019 20:24	WG1228076
cis-1,3-Dichloropropene	U		0.00114	0.00422	1.16	01/24/2019 20:24	WG1228076
trans-1,3-Dichloropropene	U		0.00258	0.00844	1.16	01/24/2019 20:24	WG1228076
trans-1,4-Dichloro-2-butene	U		0.00236	0.00844	1.16	01/26/2019 05:10	WG1228359
2,2-Dichloropropane	U		0.00134	0.00422	1.16	01/24/2019 20:24	WG1228076
Di-isopropyl ether	U		0.000591	0.00169	1.16	01/26/2019 05:10	WG1228359
Ethylbenzene	0.00160	J	0.000895	0.00422	1.16	01/24/2019 20:24	WG1228076
Hexachloro-1,3-butadiene	U	JO	0.0214	0.0422	1.16	01/24/2019 20:24	WG1228076
2-Hexanone	U	JO	0.0169	0.0422	1.16	01/24/2019 20:24	WG1228076
n-Hexane	0.0699		0.00179	0.00844	1.16	01/24/2019 20:24	WG1228076
Iodomethane	U		0.0102	0.0211	1.16	01/24/2019 20:24	WG1228076
Isopropylbenzene	U		0.00146	0.00422	1.16	01/24/2019 20:24	WG1228076
p-Isopropyltoluene	0.00489	J	0.00393	0.00844	1.16	01/24/2019 20:24	WG1228076
2-Butanone (MEK)	0.0467		0.0211	0.0422	1.16	01/24/2019 20:24	WG1228076
Methylene Chloride	U		0.0112	0.0422	1.16	01/24/2019 20:24	WG1228076
4-Methyl-2-pentanone (MIBK)	U		0.0169	0.0422	1.16	01/24/2019 20:24	WG1228076

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/21/19 09:20

L1063347

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000498	0.00169	1.16	01/24/2019 20:24	WG1228076
Naphthalene	U	JO J4	0.00527	0.0211	1.16	01/24/2019 20:24	WG1228076
n-Propylbenzene	U		0.00199	0.00844	1.16	01/24/2019 20:24	WG1228076
Styrene	U		0.00461	0.0211	1.16	01/24/2019 20:24	WG1228076
1,1,1,2-Tetrachloroethane	U		0.000844	0.00422	1.16	01/24/2019 20:24	WG1228076
1,1,2,2-Tetrachloroethane	U		0.000658	0.00422	1.16	01/26/2019 05:10	WG1228359
1,1,2-Trichlorotrifluoroethane	U		0.00114	0.00422	1.16	01/24/2019 20:24	WG1228076
Tetrachloroethene	0.109		0.00118	0.00422	1.16	01/24/2019 20:24	WG1228076
Toluene	0.0115		0.00211	0.00844	1.16	01/24/2019 20:24	WG1228076
1,2,3-Trichlorobenzene	U	JO J4	0.00105	0.00422	1.16	01/24/2019 20:24	WG1228076
1,2,4-Trichlorobenzene	U	JO	0.00813	0.0211	1.16	01/24/2019 20:24	WG1228076
1,1,1-Trichloroethane	U		0.000464	0.00422	1.16	01/24/2019 20:24	WG1228076
1,1,2-Trichloroethane	U		0.00148	0.00422	1.16	01/24/2019 20:24	WG1228076
Trichloroethene	U		0.000675	0.00169	1.16	01/24/2019 20:24	WG1228076
Trichlorofluoromethane	U		0.000844	0.00422	1.16	01/24/2019 20:24	WG1228076
1,2,3-Trichloropropane	U		0.00861	0.0211	1.16	01/24/2019 20:24	WG1228076
1,2,4-Trimethylbenzene	U		0.00195	0.00844	1.16	01/24/2019 20:24	WG1228076
1,2,3-Trimethylbenzene	U	JO J4	0.00194	0.00844	1.16	01/24/2019 20:24	WG1228076
1,3,5-Trimethylbenzene	U		0.00182	0.00844	1.16	01/24/2019 20:24	WG1228076
Vinyl acetate	U	J4	0.00594	0.0211	1.16	01/24/2019 20:24	WG1228076
Vinyl chloride	U		0.00115	0.00422	1.16	01/24/2019 20:24	WG1228076
Xylenes, Total	U		0.00806	0.0110	1.16	01/24/2019 20:24	WG1228076
(S) Toluene-d8	110			75.0-131		01/24/2019 20:24	WG1228076
(S) Toluene-d8	110			75.0-131		01/26/2019 05:10	WG1228359
(S) Dibromofluoromethane	86.0			65.0-129		01/24/2019 20:24	WG1228076
(S) Dibromofluoromethane	85.4			65.0-129		01/26/2019 05:10	WG1228359
(S) a,a,a-Trifluorotoluene	97.2			80.0-120		01/24/2019 20:24	WG1228076
(S) a,a,a-Trifluorotoluene	105			80.0-120		01/26/2019 05:10	WG1228359
(S) 4-Bromofluorobenzene	94.5			67.0-138		01/24/2019 20:24	WG1228076
(S) 4-Bromofluorobenzene	102			67.0-138		01/26/2019 05:10	WG1228359

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	81.6		1	01/24/2019 17:02	WG1227645

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0248	B J	0.0168	0.0306	1	01/24/2019 20:47	WG1228076
Acrylonitrile	U		0.00233	0.0153	1	01/24/2019 20:47	WG1228076
Benzene	0.0153		0.000490	0.00123	1	01/24/2019 20:47	WG1228076
Bromobenzene	U		0.00129	0.0153	1	01/24/2019 20:47	WG1228076
Bromodichloromethane	U		0.000965	0.00306	1	01/24/2019 20:47	WG1228076
Bromochloromethane	U		0.00138	0.00613	1	01/24/2019 20:47	WG1228076
Bromoform	U	JO	0.00733	0.0306	1	01/24/2019 20:47	WG1228076
Bromomethane	U		0.00453	0.0153	1	01/24/2019 20:47	WG1228076
n-Butylbenzene	U		0.00470	0.0153	1	01/24/2019 20:47	WG1228076
sec-Butylbenzene	U		0.00310	0.0153	1	01/24/2019 20:47	WG1228076
tert-Butylbenzene	U		0.00190	0.00613	1	01/24/2019 20:47	WG1228076
Carbon disulfide	U		0.00497	0.0153	1	01/24/2019 20:47	WG1228076
Carbon tetrachloride	U		0.00132	0.00613	1	01/24/2019 20:47	WG1228076
Chlorobenzene	U		0.000702	0.00306	1	01/24/2019 20:47	WG1228076
Chlorodibromomethane	U		0.000551	0.00306	1	01/24/2019 20:47	WG1228076
Chloroethane	U		0.00132	0.00613	1	01/24/2019 20:47	WG1228076
Chloroform	U		0.000508	0.00306	1	01/24/2019 20:47	WG1228076
Chloromethane	U		0.00170	0.0153	1	01/24/2019 20:47	WG1228076
2-Chlorotoluene	U		0.00113	0.00306	1	01/24/2019 20:47	WG1228076
4-Chlorotoluene	U		0.00138	0.00613	1	01/24/2019 20:47	WG1228076
1,2-Dibromo-3-Chloropropane	U		0.00625	0.0306	1	01/26/2019 05:31	WG1228359
1,2-Dibromoethane	U		0.000643	0.00306	1	01/24/2019 20:47	WG1228076
Dibromomethane	U		0.00123	0.00613	1	01/24/2019 20:47	WG1228076
1,2-Dichlorobenzene	U		0.00178	0.00613	1	01/24/2019 20:47	WG1228076
1,3-Dichlorobenzene	U		0.00208	0.00613	1	01/24/2019 20:47	WG1228076
1,4-Dichlorobenzene	U		0.00241	0.00613	1	01/24/2019 20:47	WG1228076
Dichlorodifluoromethane	U		0.00100	0.00306	1	01/26/2019 05:31	WG1228359
1,1-Dichloroethane	U		0.000704	0.00306	1	01/24/2019 20:47	WG1228076
1,2-Dichloroethane	U		0.000582	0.00306	1	01/24/2019 20:47	WG1228076
1,1-Dichloroethene	U		0.000613	0.00306	1	01/26/2019 05:31	WG1228359
cis-1,2-Dichloroethene	U		0.000845	0.00306	1	01/26/2019 05:31	WG1228359
trans-1,2-Dichloroethene	U		0.00175	0.00613	1	01/24/2019 20:47	WG1228076
1,2-Dichloropropane	U		0.00156	0.00613	1	01/24/2019 20:47	WG1228076
1,1-Dichloropropene	U		0.000858	0.00306	1	01/24/2019 20:47	WG1228076
1,3-Dichloropropane	U		0.00214	0.00613	1	01/24/2019 20:47	WG1228076
cis-1,3-Dichloropropene	U		0.000831	0.00306	1	01/24/2019 20:47	WG1228076
trans-1,3-Dichloropropene	U		0.00187	0.00613	1	01/24/2019 20:47	WG1228076
trans-1,4-Dichloro-2-butene	U		0.00172	0.00613	1	01/26/2019 05:31	WG1228359
2,2-Dichloropropane	U		0.000971	0.00306	1	01/24/2019 20:47	WG1228076
Di-isopropyl ether	U		0.000429	0.00123	1	01/26/2019 05:31	WG1228359
Ethylbenzene	0.00295	J	0.000649	0.00306	1	01/24/2019 20:47	WG1228076
Hexachloro-1,3-butadiene	U	JO	0.0156	0.0306	1	01/24/2019 20:47	WG1228076
2-Hexanone	U	JO	0.0123	0.0306	1	01/24/2019 20:47	WG1228076
n-Hexane	0.00687	B	0.00130	0.00613	1	01/24/2019 20:47	WG1228076
Iodomethane	U		0.00741	0.0153	1	01/24/2019 20:47	WG1228076
Isopropylbenzene	U		0.00106	0.00306	1	01/24/2019 20:47	WG1228076
p-Isopropyltoluene	0.00779		0.00285	0.00613	1	01/24/2019 20:47	WG1228076
2-Butanone (MEK)	0.0452		0.0153	0.0306	1	01/24/2019 20:47	WG1228076
Methylene Chloride	U		0.00813	0.0306	1	01/24/2019 20:47	WG1228076
4-Methyl-2-pentanone (MIBK)	U		0.0123	0.0306	1	01/24/2019 20:47	WG1228076

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/21/19 09:30

L1063347

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000361	0.00123	1	01/24/2019 20:47	WG1228076
Naphthalene	U	JO J4	0.00382	0.0153	1	01/24/2019 20:47	WG1228076
n-Propylbenzene	U		0.00145	0.00613	1	01/24/2019 20:47	WG1228076
Styrene	U		0.00334	0.0153	1	01/24/2019 20:47	WG1228076
1,1,1,2-Tetrachloroethane	U		0.000613	0.00306	1	01/24/2019 20:47	WG1228076
1,1,2,2-Tetrachloroethane	U		0.000478	0.00306	1	01/26/2019 05:31	WG1228359
1,1,2-Trichlorotrifluoroethane	U		0.000827	0.00306	1	01/24/2019 20:47	WG1228076
Tetrachloroethene	0.00257	J	0.000858	0.00306	1	01/24/2019 20:47	WG1228076
Toluene	0.00773		0.00153	0.00613	1	01/24/2019 20:47	WG1228076
1,2,3-Trichlorobenzene	U	JO J4	0.000766	0.00306	1	01/24/2019 20:47	WG1228076
1,2,4-Trichlorobenzene	U	JO	0.00590	0.0153	1	01/24/2019 20:47	WG1228076
1,1,1-Trichloroethane	U		0.000337	0.00306	1	01/24/2019 20:47	WG1228076
1,1,2-Trichloroethane	U		0.00108	0.00306	1	01/24/2019 20:47	WG1228076
Trichloroethene	U		0.000490	0.00123	1	01/24/2019 20:47	WG1228076
Trichlorofluoromethane	U		0.000613	0.00306	1	01/24/2019 20:47	WG1228076
1,2,3-Trichloropropane	U		0.00625	0.0153	1	01/24/2019 20:47	WG1228076
1,2,4-Trimethylbenzene	0.00729		0.00142	0.00613	1	01/24/2019 20:47	WG1228076
1,2,3-Trimethylbenzene	0.00365	J JO J4	0.00141	0.00613	1	01/24/2019 20:47	WG1228076
1,3,5-Trimethylbenzene	0.00205	J	0.00132	0.00613	1	01/24/2019 20:47	WG1228076
Vinyl acetate	U	J4	0.00431	0.0153	1	01/24/2019 20:47	WG1228076
Vinyl chloride	U		0.000837	0.00306	1	01/24/2019 20:47	WG1228076
Xylenes, Total	0.0170		0.00586	0.00796	1	01/24/2019 20:47	WG1228076
(S) Toluene-d8	109			75.0-131		01/24/2019 20:47	WG1228076
(S) Toluene-d8	112			75.0-131		01/26/2019 05:31	WG1228359
(S) Dibromofluoromethane	83.7			65.0-129		01/24/2019 20:47	WG1228076
(S) Dibromofluoromethane	84.7			65.0-129		01/26/2019 05:31	WG1228359
(S) a,a,a-Trifluorotoluene	97.6			80.0-120		01/24/2019 20:47	WG1228076
(S) a,a,a-Trifluorotoluene	106			80.0-120		01/26/2019 05:31	WG1228359
(S) 4-Bromofluorobenzene	94.1			67.0-138		01/24/2019 20:47	WG1228076
(S) 4-Bromofluorobenzene	104			67.0-138		01/26/2019 05:31	WG1228359

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	86.5		1	01/24/2019 17:02	WG1227645

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0336	B	0.0158	0.0289	1	01/24/2019 21:09	WG1228076
Acrylonitrile	U		0.00220	0.0144	1	01/24/2019 21:09	WG1228076
Benzene	0.0228		0.000462	0.00116	1	01/24/2019 21:09	WG1228076
Bromobenzene	U		0.00121	0.0144	1	01/24/2019 21:09	WG1228076
Bromodichloromethane	U		0.000911	0.00289	1	01/24/2019 21:09	WG1228076
Bromochloromethane	U		0.00131	0.00578	1	01/24/2019 21:09	WG1228076
Bromoform	U	JO	0.00691	0.0289	1	01/24/2019 21:09	WG1228076
Bromomethane	U		0.00428	0.0144	1	01/24/2019 21:09	WG1228076
n-Butylbenzene	U		0.00444	0.0144	1	01/24/2019 21:09	WG1228076
sec-Butylbenzene	U		0.00292	0.0144	1	01/24/2019 21:09	WG1228076
tert-Butylbenzene	U		0.00179	0.00578	1	01/24/2019 21:09	WG1228076
Carbon disulfide	U		0.00469	0.0144	1	01/24/2019 21:09	WG1228076
Carbon tetrachloride	U		0.00125	0.00578	1	01/24/2019 21:09	WG1228076
Chlorobenzene	U		0.000662	0.00289	1	01/24/2019 21:09	WG1228076
Chlorodibromomethane	U		0.000520	0.00289	1	01/24/2019 21:09	WG1228076
Chloroethane	U		0.00125	0.00578	1	01/24/2019 21:09	WG1228076
Chloroform	0.000510	J	0.000480	0.00289	1	01/24/2019 21:09	WG1228076
Chloromethane	U		0.00161	0.0144	1	01/24/2019 21:09	WG1228076
2-Chlorotoluene	U		0.00106	0.00289	1	01/24/2019 21:09	WG1228076
4-Chlorotoluene	U		0.00131	0.00578	1	01/24/2019 21:09	WG1228076
1,2-Dibromo-3-Chloropropane	U		0.00589	0.0289	1	01/26/2019 05:50	WG1228359
1,2-Dibromoethane	U		0.000607	0.00289	1	01/24/2019 21:09	WG1228076
Dibromomethane	U		0.00116	0.00578	1	01/24/2019 21:09	WG1228076
1,2-Dichlorobenzene	U		0.00168	0.00578	1	01/24/2019 21:09	WG1228076
1,3-Dichlorobenzene	U		0.00196	0.00578	1	01/24/2019 21:09	WG1228076
1,4-Dichlorobenzene	U		0.00228	0.00578	1	01/24/2019 21:09	WG1228076
Dichlorodifluoromethane	U		0.000945	0.00289	1	01/26/2019 05:50	WG1228359
1,1-Dichloroethane	U		0.000664	0.00289	1	01/24/2019 21:09	WG1228076
1,2-Dichloroethane	U		0.000549	0.00289	1	01/24/2019 21:09	WG1228076
1,1-Dichloroethene	U		0.000578	0.00289	1	01/26/2019 05:50	WG1228359
cis-1,2-Dichloroethene	0.00338		0.000797	0.00289	1	01/26/2019 05:50	WG1228359
trans-1,2-Dichloroethene	U		0.00165	0.00578	1	01/24/2019 21:09	WG1228076
1,2-Dichloropropane	U		0.00147	0.00578	1	01/24/2019 21:09	WG1228076
1,1-Dichloropropene	U		0.000809	0.00289	1	01/24/2019 21:09	WG1228076
1,3-Dichloropropane	U		0.00202	0.00578	1	01/24/2019 21:09	WG1228076
cis-1,3-Dichloropropene	U		0.000784	0.00289	1	01/24/2019 21:09	WG1228076
trans-1,3-Dichloropropene	U		0.00177	0.00578	1	01/24/2019 21:09	WG1228076
trans-1,4-Dichloro-2-butene	U		0.00162	0.00578	1	01/26/2019 05:50	WG1228359
2,2-Dichloropropane	U		0.000916	0.00289	1	01/24/2019 21:09	WG1228076
Di-isopropyl ether	U		0.000404	0.00116	1	01/26/2019 05:50	WG1228359
Ethylbenzene	0.000632	J	0.000612	0.00289	1	01/24/2019 21:09	WG1228076
Hexachloro-1,3-butadiene	U	JO	0.0147	0.0289	1	01/24/2019 21:09	WG1228076
2-Hexanone	U	JO	0.0116	0.0289	1	01/24/2019 21:09	WG1228076
n-Hexane	0.00318	B J	0.00122	0.00578	1	01/24/2019 21:09	WG1228076
Iodomethane	U		0.00699	0.0144	1	01/24/2019 21:09	WG1228076
Isopropylbenzene	U		0.000997	0.00289	1	01/24/2019 21:09	WG1228076
p-Isopropyltoluene	U		0.00269	0.00578	1	01/24/2019 21:09	WG1228076
2-Butanone (MEK)	0.0305		0.0144	0.0289	1	01/24/2019 21:09	WG1228076
Methylene Chloride	U		0.00767	0.0289	1	01/24/2019 21:09	WG1228076
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0289	1	01/24/2019 21:09	WG1228076

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/21/19 10:10

L1063347

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000341	0.00116	1	01/24/2019 21:09	WG1228076
Naphthalene	U	JO J4	0.00361	0.0144	1	01/24/2019 21:09	WG1228076
n-Propylbenzene	U		0.00136	0.00578	1	01/24/2019 21:09	WG1228076
Styrene	U		0.00315	0.0144	1	01/24/2019 21:09	WG1228076
1,1,1,2-Tetrachloroethane	U		0.000578	0.00289	1	01/24/2019 21:09	WG1228076
1,1,2,2-Tetrachloroethane	U		0.000451	0.00289	1	01/26/2019 05:50	WG1228359
1,1,2-Trichlorotrifluoroethane	U		0.000780	0.00289	1	01/24/2019 21:09	WG1228076
Tetrachloroethene	0.00251	J	0.000809	0.00289	1	01/24/2019 21:09	WG1228076
Toluene	0.00384	J	0.00144	0.00578	1	01/24/2019 21:09	WG1228076
1,2,3-Trichlorobenzene	U	JO J4	0.000722	0.00289	1	01/24/2019 21:09	WG1228076
1,2,4-Trichlorobenzene	U	JO	0.00557	0.0144	1	01/24/2019 21:09	WG1228076
1,1,1-Trichloroethane	U		0.000318	0.00289	1	01/24/2019 21:09	WG1228076
1,1,2-Trichloroethane	U		0.00102	0.00289	1	01/24/2019 21:09	WG1228076
Trichloroethene	U		0.000462	0.00116	1	01/24/2019 21:09	WG1228076
Trichlorofluoromethane	U		0.000578	0.00289	1	01/24/2019 21:09	WG1228076
1,2,3-Trichloropropane	U		0.00589	0.0144	1	01/24/2019 21:09	WG1228076
1,2,4-Trimethylbenzene	0.00174	J	0.00134	0.00578	1	01/24/2019 21:09	WG1228076
1,2,3-Trimethylbenzene	U	JO J4	0.00133	0.00578	1	01/24/2019 21:09	WG1228076
1,3,5-Trimethylbenzene	U		0.00125	0.00578	1	01/24/2019 21:09	WG1228076
Vinyl acetate	U	J4	0.00407	0.0144	1	01/24/2019 21:09	WG1228076
Vinyl chloride	0.00102	J	0.000789	0.00289	1	01/24/2019 21:09	WG1228076
Xylenes, Total	U		0.00552	0.00751	1	01/24/2019 21:09	WG1228076
(S) Toluene-d8	95.1			75.0-131		01/24/2019 21:09	WG1228076
(S) Toluene-d8	95.7			75.0-131		01/26/2019 05:50	WG1228359
(S) Dibromofluoromethane	85.6			65.0-129		01/24/2019 21:09	WG1228076
(S) Dibromofluoromethane	82.6			65.0-129		01/26/2019 05:50	WG1228359
(S) a,a,a-Trifluorotoluene	95.9			80.0-120		01/24/2019 21:09	WG1228076
(S) a,a,a-Trifluorotoluene	105			80.0-120		01/26/2019 05:50	WG1228359
(S) 4-Bromofluorobenzene	93.2			67.0-138		01/24/2019 21:09	WG1228076
(S) 4-Bromofluorobenzene	105			67.0-138		01/26/2019 05:50	WG1228359

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	54.4		1	01/24/2019 17:02	WG1227645

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

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	24.9		1.84	5.42	29.5	01/23/2019 15:56	WG1227399
(S) a,a,a-Trifluorotoluene(FID)	95.4			77.0-120		01/23/2019 15:56	WG1227399

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.168	B	0.0299	0.0546	1.19	01/24/2019 21:31	WG1228076
Acrylonitrile	U		0.00415	0.0273	1.19	01/24/2019 21:31	WG1228076
Benzene	0.274		0.000874	0.00219	1.19	01/24/2019 21:31	WG1228076
Bromobenzene	U		0.00230	0.0273	1.19	01/24/2019 21:31	WG1228076
Bromodichloromethane	U		0.00172	0.00546	1.19	01/24/2019 21:31	WG1228076
Bromochloromethane	U		0.00246	0.0109	1.19	01/24/2019 21:31	WG1228076
Bromoform	U	JO	0.0131	0.0546	1.19	01/24/2019 21:31	WG1228076
Bromomethane	U		0.00808	0.0273	1.19	01/24/2019 21:31	WG1228076
n-Butylbenzene	U		0.00839	0.0273	1.19	01/24/2019 21:31	WG1228076
sec-Butylbenzene	U		0.00553	0.0273	1.19	01/24/2019 21:31	WG1228076
tert-Butylbenzene	U		0.00338	0.0109	1.19	01/24/2019 21:31	WG1228076
Carbon disulfide	0.0228	J	0.00887	0.0273	1.19	01/24/2019 21:31	WG1228076
Carbon tetrachloride	U		0.00235	0.0109	1.19	01/24/2019 21:31	WG1228076
Chlorobenzene	U		0.00125	0.00546	1.19	01/24/2019 21:31	WG1228076
Chlorodibromomethane	U		0.000985	0.00546	1.19	01/24/2019 21:31	WG1228076
Chloroethane	U		0.00235	0.0109	1.19	01/24/2019 21:31	WG1228076
Chloroform	U		0.000907	0.00546	1.19	01/24/2019 21:31	WG1228076
Chloromethane	U		0.00303	0.0273	1.19	01/24/2019 21:31	WG1228076
2-Chlorotoluene	U		0.00200	0.00546	1.19	01/24/2019 21:31	WG1228076
4-Chlorotoluene	U		0.00246	0.0109	1.19	01/24/2019 21:31	WG1228076
1,2-Dibromo-3-Chloropropane	U		0.0111	0.0542	1.18	01/26/2019 06:10	WG1228359
1,2-Dibromoethane	U		0.00115	0.00546	1.19	01/24/2019 21:31	WG1228076
Dibromomethane	U		0.00219	0.0109	1.19	01/24/2019 21:31	WG1228076
1,2-Dichlorobenzene	U		0.00316	0.0109	1.19	01/24/2019 21:31	WG1228076
1,3-Dichlorobenzene	U		0.00371	0.0109	1.19	01/24/2019 21:31	WG1228076
1,4-Dichlorobenzene	U		0.00430	0.0109	1.19	01/24/2019 21:31	WG1228076
Dichlorodifluoromethane	U		0.00177	0.00542	1.18	01/26/2019 06:10	WG1228359
1,1-Dichloroethane	U		0.00126	0.00546	1.19	01/24/2019 21:31	WG1228076
1,2-Dichloroethane	U		0.00104	0.00546	1.19	01/24/2019 21:31	WG1228076
1,1-Dichloroethene	U		0.00108	0.00542	1.18	01/26/2019 06:10	WG1228359
cis-1,2-Dichloroethene	0.864		0.00150	0.00542	1.18	01/26/2019 06:10	WG1228359
trans-1,2-Dichloroethene	0.0366		0.00312	0.0109	1.19	01/24/2019 21:31	WG1228076
1,2-Dichloropropane	U		0.00277	0.0109	1.19	01/24/2019 21:31	WG1228076
1,1-Dichloropropene	U		0.00153	0.00546	1.19	01/24/2019 21:31	WG1228076
1,3-Dichloropropane	U		0.00382	0.0109	1.19	01/24/2019 21:31	WG1228076
cis-1,3-Dichloropropene	U		0.00148	0.00546	1.19	01/24/2019 21:31	WG1228076
trans-1,3-Dichloropropene	U		0.00334	0.0109	1.19	01/24/2019 21:31	WG1228076
trans-1,4-Dichloro-2-butene	U		0.00303	0.0108	1.18	01/26/2019 06:10	WG1228359
2,2-Dichloropropane	U		0.00173	0.00546	1.19	01/24/2019 21:31	WG1228076
Di-isopropyl ether	U		0.000759	0.00217	1.18	01/26/2019 06:10	WG1228359
Ethylbenzene	0.0240		0.00116	0.00546	1.19	01/24/2019 21:31	WG1228076
Hexachloro-1,3-butadiene	U	JO	0.0277	0.0546	1.19	01/24/2019 21:31	WG1228076
2-Hexanone	U	JO	0.0219	0.0546	1.19	01/24/2019 21:31	WG1228076
n-Hexane	1.22		0.00231	0.0109	1.19	01/24/2019 21:31	WG1228076



Collected date/time: 01/21/19 09:40

L1063347

Volatile Organic Compounds (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		0.0132	0.0273	1.19	01/24/2019 21:31	WG1228076
Isopropylbenzene	0.00922		0.00189	0.00546	1.19	01/24/2019 21:31	WG1228076
p-Isopropyltoluene	0.118		0.00509	0.0109	1.19	01/24/2019 21:31	WG1228076
2-Butanone (MEK)	0.213		0.0274	0.0546	1.19	01/24/2019 21:31	WG1228076
Methylene Chloride	U		0.0145	0.0546	1.19	01/24/2019 21:31	WG1228076
4-Methyl-2-pentanone (MIBK)	U		0.0219	0.0546	1.19	01/24/2019 21:31	WG1228076
Methyl tert-butyl ether	U		0.000645	0.00219	1.19	01/24/2019 21:31	WG1228076
Naphthalene	U	JO J4	0.00681	0.0273	1.19	01/24/2019 21:31	WG1228076
n-Propylbenzene	0.00827	J	0.00257	0.0109	1.19	01/24/2019 21:31	WG1228076
Styrene	U		0.00597	0.0273	1.19	01/24/2019 21:31	WG1228076
1,1,1,2-Tetrachloroethane	U		0.00109	0.00546	1.19	01/24/2019 21:31	WG1228076
1,1,2,2-Tetrachloroethane	U		0.000845	0.00542	1.18	01/26/2019 06:10	WG1228359
1,1,2-Trichlorotrifluoroethane	U		0.00148	0.00546	1.19	01/24/2019 21:31	WG1228076
Tetrachloroethene	0.00154	J	0.00153	0.00546	1.19	01/24/2019 21:31	WG1228076
Toluene	0.118		0.00274	0.0109	1.19	01/24/2019 21:31	WG1228076
1,2,3-Trichlorobenzene	U	JO J4	0.00137	0.00546	1.19	01/24/2019 21:31	WG1228076
1,2,4-Trichlorobenzene	U	JO	0.0105	0.0273	1.19	01/24/2019 21:31	WG1228076
1,1,1-Trichloroethane	U		0.000601	0.00546	1.19	01/24/2019 21:31	WG1228076
1,1,2-Trichloroethane	U		0.00193	0.00546	1.19	01/24/2019 21:31	WG1228076
Trichloroethene	0.00166	J	0.000874	0.00219	1.19	01/24/2019 21:31	WG1228076
Trichlorofluoromethane	U		0.00109	0.00546	1.19	01/24/2019 21:31	WG1228076
1,2,3-Trichloropropane	U		0.0111	0.0273	1.19	01/24/2019 21:31	WG1228076
1,2,4-Trimethylbenzene	0.0155		0.00253	0.0109	1.19	01/24/2019 21:31	WG1228076
1,2,3-Trimethylbenzene	0.0116	JO J4	0.00252	0.0109	1.19	01/24/2019 21:31	WG1228076
1,3,5-Trimethylbenzene	0.00992	J	0.00235	0.0109	1.19	01/24/2019 21:31	WG1228076
Vinyl acetate	U	J4	0.00770	0.0273	1.19	01/24/2019 21:31	WG1228076
Vinyl chloride	0.141		0.00149	0.00546	1.19	01/24/2019 21:31	WG1228076
Xylenes, Total	0.0516		0.0105	0.0142	1.19	01/24/2019 21:31	WG1228076
(S) Toluene-d8	88.6			75.0-131		01/24/2019 21:31	WG1228076
(S) Toluene-d8	86.5			75.0-131		01/26/2019 06:10	WG1228359
(S) Dibromofluoromethane	87.6			65.0-129		01/24/2019 21:31	WG1228076
(S) Dibromofluoromethane	84.1			65.0-129		01/26/2019 06:10	WG1228359
(S) a,a,a-Trifluorotoluene	98.8			80.0-120		01/24/2019 21:31	WG1228076
(S) a,a,a-Trifluorotoluene	105			80.0-120		01/26/2019 06:10	WG1228359
(S) 4-Bromofluorobenzene	95.2			67.0-138		01/24/2019 21:31	WG1228076
(S) 4-Bromofluorobenzene	103			67.0-138		01/26/2019 06:10	WG1228359

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ 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	U		31.6	100	1	01/23/2019 15:34	WG1227438
(S) a,a,a-Trifluorotoluene(FID)	101			78.0-120		01/23/2019 15:34	WG1227438

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
Acetone	U		1.05	25.0	1	01/24/2019 12:03	WG1227840
Acrylonitrile	U		0.873	5.00	1	01/24/2019 12:03	WG1227840
Benzene	U		0.0896	0.500	1	01/24/2019 12:03	WG1227840
Bromobenzene	U		0.133	0.500	1	01/24/2019 12:03	WG1227840
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 12:03	WG1227840
Bromochloromethane	U		0.145	0.500	1	01/24/2019 12:03	WG1227840
Bromoform	U		0.186	0.500	1	01/24/2019 12:03	WG1227840
Bromomethane	U		0.157	2.50	1	01/24/2019 12:03	WG1227840
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 12:03	WG1227840
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 12:03	WG1227840
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 12:03	WG1227840
Carbon disulfide	U		0.101	0.500	1	01/24/2019 12:03	WG1227840
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 12:03	WG1227840
Chlorobenzene	U		0.140	0.500	1	01/24/2019 12:03	WG1227840
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 12:03	WG1227840
Chloroethane	U		0.141	2.50	1	01/24/2019 12:03	WG1227840
Chloroform	U		0.0860	0.500	1	01/24/2019 12:03	WG1227840
Chloromethane	U		0.153	1.25	1	01/24/2019 12:03	WG1227840
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 12:03	WG1227840
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 12:03	WG1227840
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 12:03	WG1227840
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 12:03	WG1227840
Dibromomethane	U		0.117	0.500	1	01/24/2019 12:03	WG1227840
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 12:03	WG1227840
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 12:03	WG1227840
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 12:03	WG1227840
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 12:03	WG1227840
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 12:03	WG1227840
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 12:03	WG1227840
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 12:03	WG1227840
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/24/2019 12:03	WG1227840
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 12:03	WG1227840
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 12:03	WG1227840
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 12:03	WG1227840
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 12:03	WG1227840
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 12:03	WG1227840
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 12:03	WG1227840
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 12:03	WG1227840
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 12:03	WG1227840
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 12:03	WG1227840
Ethylbenzene	U		0.158	0.500	1	01/24/2019 12:03	WG1227840
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 12:03	WG1227840
2-Hexanone	U		0.757	5.00	1	01/24/2019 12:03	WG1227840
n-Hexane	U		0.305	5.00	1	01/24/2019 12:03	WG1227840
Iodomethane	U		0.377	10.0	1	01/24/2019 12:03	WG1227840
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 12:03	WG1227840
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 12:03	WG1227840
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 12:03	WG1227840



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	01/24/2019 12:03	WG1227840
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 12:03	WG1227840
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 12:03	WG1227840
Naphthalene	0.179	BJ	0.174	2.50	1	01/24/2019 12:03	WG1227840
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 12:03	WG1227840
Styrene	U		0.117	0.500	1	01/24/2019 12:03	WG1227840
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 12:03	WG1227840
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 12:03	WG1227840
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 12:03	WG1227840
Tetrachloroethene	U		0.199	0.500	1	01/24/2019 12:03	WG1227840
Toluene	U		0.412	0.500	1	01/24/2019 12:03	WG1227840
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 12:03	WG1227840
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 12:03	WG1227840
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 12:03	WG1227840
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 12:03	WG1227840
Trichloroethene	U		0.153	0.500	1	01/24/2019 12:03	WG1227840
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 12:03	WG1227840
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 12:03	WG1227840
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 12:03	WG1227840
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 12:03	WG1227840
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 12:03	WG1227840
Vinyl acetate	U		0.645	5.00	1	01/24/2019 12:03	WG1227840
Vinyl chloride	U		0.118	0.500	1	01/24/2019 12:03	WG1227840
Xylenes, Total	U		0.316	1.50	1	01/24/2019 12:03	WG1227840
(S) Toluene-d8	100			80.0-120		01/24/2019 12:03	WG1227840
(S) Dibromofluoromethane	104			75.0-120		01/24/2019 12:03	WG1227840
(S) a,a,a-Trifluorotoluene	98.8			80.0-120		01/24/2019 12:03	WG1227840
(S) 4-Bromofluorobenzene	91.1			77.0-126		01/24/2019 12:03	WG1227840

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3378597-1 01/24/19 17:02

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

L1063347-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1063347-03 01/24/19 17:02 • (DUP) R3378597-3 01/24/19 17:02

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	86.5	83.3	1	3.81		10

⁷ Gl

⁸ Al

Laboratory Control Sample (LCS)

(LCS) R3378597-2 01/24/19 17:02

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

⁹ Sc



Method Blank (MB)

(MB) R3378174-3 01/23/19 11:15

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)	94.6			77.0-120

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) R3378174-1 01/23/19 10:11 • (LCSD) R3378174-2 01/23/19 10:32

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 %
Gasoline Range Organics-NWTPH	5.50	5.60	5.03	102	91.5	71.0-124			10.6	20
(S) a,a,a-Trifluorotoluene(FID)				112	110	77.0-120				

L1063298-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1063298-05 01/23/19 15:26 • (MS) R3378174-4 01/23/19 16:17 • (MSD) R3378174-5 01/23/19 16:38

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	1050	1370	1320	57.9	48.7	100	10.0-149	E	E	3.77	27
(S) a,a,a-Trifluorotoluene(FID)					100	97.2		77.0-120				

Method Blank (MB)

(MB) R3379373-4 01/23/19 14:50				
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)	101			78.0-120

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

(LCS) R3379373-2 01/23/19 02:17 • (LCSD) R3379373-3 01/23/19 02:38										
Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	5380	5420	97.9	98.6	70.0-124			0.732	20
(S) a,a,a-Trifluorotoluene(FID)				99.8	101	78.0-120				

L1063332-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1063332-01 01/23/19 15:55 • (MS) R3379373-7 01/23/19 23:33 • (MSD) R3379373-8 01/24/19 00:00												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Gasoline Range Organics-NWTPH	5500	587	5390	5350	87.3	86.5	1	10.0-155			0.803	21
(S) a,a,a-Trifluorotoluene(FID)					100	99.4		78.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3378860-3 01/24/19 09:55

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3378860-3 01/24/19 09:55

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	0.260	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	102			75.0-120
(S) a,a,a-Trifluorotoluene	98.9			80.0-120
(S) 4-Bromofluorobenzene	93.1			77.0-126

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) R3378860-1 01/24/19 08:56 • (LCSD) R3378860-2 01/24/19 09:16

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	125	193	168	155	134	19.0-160			14.0	27
Acrylonitrile	125	155	144	124	115	55.0-149			7.57	20
Benzene	25.0	26.2	24.8	105	99.1	70.0-123			5.66	20
Bromobenzene	25.0	24.9	23.9	99.7	95.5	73.0-121			4.32	20
Bromodichloromethane	25.0	27.9	26.1	112	104	75.0-120			6.74	20
Bromochloromethane	25.0	27.1	25.4	109	102	76.0-122			6.60	20
Bromoform	25.0	24.9	23.7	99.5	94.8	68.0-132			4.87	20
Bromomethane	25.0	28.2	26.4	113	105	10.0-160			6.67	25
n-Butylbenzene	25.0	26.8	25.2	107	101	73.0-125			6.14	20
sec-Butylbenzene	25.0	26.8	25.5	107	102	75.0-125			5.21	20
tert-Butylbenzene	25.0	26.1	25.0	104	100	76.0-124			4.01	20
Carbon disulfide	25.0	26.5	25.6	106	102	61.0-128			3.53	20
Carbon tetrachloride	25.0	24.4	23.8	97.6	95.2	68.0-126			2.48	20
Chlorobenzene	25.0	25.2	24.5	101	98.0	80.0-121			2.74	20
Chlorodibromomethane	25.0	26.1	25.3	104	101	77.0-125			3.06	20
Chloroethane	25.0	30.5	28.3	122	113	47.0-150			7.58	20
Chloroform	25.0	27.4	26.1	110	105	73.0-120			4.83	20
Chloromethane	25.0	27.8	27.1	111	108	41.0-142			2.71	20
2-Chlorotoluene	25.0	25.5	24.4	102	97.5	76.0-123			4.34	20
4-Chlorotoluene	25.0	25.8	24.8	103	99.2	75.0-122			3.92	20
1,2-Dibromo-3-Chloropropane	25.0	25.2	24.3	101	97.3	58.0-134			3.35	20
1,2-Dibromoethane	25.0	26.6	25.7	106	103	80.0-122			3.38	20
Dibromomethane	25.0	28.7	27.6	115	111	80.0-120			3.94	20
1,2-Dichlorobenzene	25.0	26.3	24.9	105	99.5	79.0-121			5.75	20
1,3-Dichlorobenzene	25.0	25.6	24.4	102	97.5	79.0-120			5.00	20
1,4-Dichlorobenzene	25.0	25.5	24.7	102	98.8	79.0-120			3.19	20
Dichlorodifluoromethane	25.0	25.4	24.8	101	99.2	51.0-149			2.26	20
1,1-Dichloroethane	25.0	27.7	26.3	111	105	70.0-126			5.23	20
1,2-Dichloroethane	25.0	28.6	27.1	115	108	70.0-128			5.57	20
1,1-Dichloroethene	25.0	25.6	25.3	102	101	71.0-124			1.17	20
cis-1,2-Dichloroethene	25.0	27.5	26.5	110	106	73.0-120			3.74	20
trans-1,2-Dichloroethene	25.0	26.9	26.1	108	104	73.0-120			3.00	20
1,2-Dichloropropane	25.0	28.1	26.7	112	107	77.0-125			4.96	20
1,1-Dichloropropene	25.0	27.8	26.3	111	105	74.0-126			5.36	20
1,3-Dichloropropane	25.0	26.6	25.5	107	102	80.0-120			4.55	20
cis-1,3-Dichloropropene	25.0	26.0	25.0	104	100	80.0-123			4.04	20
trans-1,3-Dichloropropene	25.0	26.8	25.5	107	102	78.0-124			4.72	20
trans-1,4-Dichloro-2-butene	25.0	21.7	20.7	86.9	82.7	33.0-144			4.97	20
2,2-Dichloropropane	25.0	24.0	22.8	96.2	91.3	58.0-130			5.21	20
Di-isopropyl ether	25.0	28.8	27.2	115	109	58.0-138			5.73	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



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

(LCS) R3378860-1 01/24/19 08:56 • (LCSD) R3378860-2 01/24/19 09:16

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Ethylbenzene	25.0	25.8	24.4	103	97.8	79.0-123			5.38	20
Hexachloro-1,3-butadiene	25.0	24.1	22.9	96.4	91.7	54.0-138			4.97	20
2-Hexanone	125	144	138	115	110	67.0-149			4.22	20
n-Hexane	25.0	25.5	24.3	102	97.0	57.0-133			4.91	20
Iodomethane	125	123	120	98.1	96.0	33.0-147			2.11	26
Isopropylbenzene	25.0	25.1	24.1	101	96.6	76.0-127			3.99	20
p-Isopropyltoluene	25.0	26.4	25.1	106	101	76.0-125			4.95	20
2-Butanone (MEK)	125	149	138	119	110	44.0-160			7.94	20
Methylene Chloride	25.0	26.4	25.7	106	103	67.0-120			2.62	20
4-Methyl-2-pentanone (MIBK)	125	143	135	114	108	68.0-142			5.88	20
Methyl tert-butyl ether	25.0	27.6	26.3	111	105	68.0-125			4.92	20
Naphthalene	25.0	23.6	23.4	94.3	93.5	54.0-135			0.895	20
n-Propylbenzene	25.0	25.1	24.1	100	96.2	77.0-124			4.12	20
Styrene	25.0	25.8	25.2	103	101	73.0-130			2.29	20
1,1,1,2-Tetrachloroethane	25.0	25.0	24.1	100	96.6	75.0-125			3.49	20
1,1,2,2-Tetrachloroethane	25.0	24.4	23.7	97.6	94.7	65.0-130			3.07	20
1,1,2-Trichlorotrifluoroethane	25.0	24.9	24.1	99.7	96.4	69.0-132			3.42	20
Tetrachloroethene	25.0	23.6	23.0	94.4	92.2	72.0-132			2.39	20
Toluene	25.0	24.9	24.0	99.7	96.2	79.0-120			3.64	20
1,2,3-Trichlorobenzene	25.0	23.3	22.5	93.2	89.9	50.0-138			3.69	20
1,2,4-Trichlorobenzene	25.0	24.5	23.9	98.0	95.5	57.0-137			2.58	20
1,1,1-Trichloroethane	25.0	27.5	26.2	110	105	73.0-124			4.63	20
1,1,2-Trichloroethane	25.0	26.6	25.7	106	103	80.0-120			3.33	20
Trichloroethene	25.0	26.5	25.1	106	100	78.0-124			5.54	20
Trichlorofluoromethane	25.0	25.8	24.7	103	98.6	59.0-147			4.58	20
1,2,3-Trichloropropane	25.0	26.0	25.3	104	101	73.0-130			2.65	20
1,2,4-Trimethylbenzene	25.0	26.1	24.7	104	98.9	76.0-121			5.51	20
1,2,3-Trimethylbenzene	25.0	25.6	24.4	102	97.7	77.0-120			4.62	20
1,3,5-Trimethylbenzene	25.0	25.4	24.6	101	98.4	76.0-122			3.07	20
Vinyl acetate	125	86.7	93.7	69.3	74.9	11.0-160			7.76	20
Vinyl chloride	25.0	28.0	26.5	112	106	67.0-131			5.34	20
Xylenes, Total	75.0	77.4	74.2	103	98.9	79.0-123			4.22	20
(S) Toluene-d8				97.8	98.7	80.0-120				
(S) Dibromofluoromethane				102	102	75.0-120				
(S) o,o,a-Trifluorotoluene				96.7	96.7	80.0-120				
(S) 4-Bromofluorobenzene				93.1	95.3	77.0-126				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3378580-3 01/24/19 14:08

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	0.0174	U	0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	0.00559		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250
n-Hexane	0.00359	U	0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3378580-3 01/24/19 14:08

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	0.0143	⌵	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	111			75.0-131
(S) Dibromofluoromethane	85.5			65.0-129
(S) a,a,a-Trifluorotoluene	98.3			80.0-120
(S) 4-Bromofluorobenzene	95.8			67.0-138

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3378580-1 01/24/19 11:16 • (LCSD) R3378580-2 01/24/19 11:38

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	0.625	0.627	0.614	100	98.2	10.0-160			2.18	31
Acrylonitrile	0.625	0.529	0.519	84.6	83.1	45.0-153			1.76	22
Benzene	0.125	0.116	0.116	92.9	92.8	70.0-123			0.159	20
Bromobenzene	0.125	0.110	0.112	88.2	89.5	73.0-121			1.40	20



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

(LCS) R3378580-1 01/24/19 11:16 • (LCSD) R3378580-2 01/24/19 11:38

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 %
Bromodichloromethane	0.125	0.122	0.122	97.6	97.3	73.0-121			0.334	20
Bromochloromethane	0.125	0.128	0.129	103	103	77.0-128			0.638	20
Bromoform	0.125	0.0988	0.0974	79.0	77.9	64.0-132			1.48	20
Bromomethane	0.125	0.148	0.147	119	118	56.0-147			0.909	20
n-Butylbenzene	0.125	0.107	0.110	85.6	87.9	68.0-135			2.74	20
sec-Butylbenzene	0.125	0.105	0.107	84.1	85.5	74.0-130			1.58	20
tert-Butylbenzene	0.125	0.110	0.112	88.2	89.3	75.0-127			1.29	20
Carbon disulfide	0.125	0.105	0.105	84.2	84.1	56.0-133			0.139	20
Carbon tetrachloride	0.125	0.116	0.118	92.9	94.8	66.0-128			2.04	20
Chlorobenzene	0.125	0.124	0.128	99.5	103	76.0-128			3.07	20
Chlorodibromomethane	0.125	0.102	0.107	81.7	85.8	74.0-127			4.88	20
Chloroethane	0.125	0.132	0.132	106	105	61.0-134			0.556	20
Chloroform	0.125	0.116	0.116	93.0	93.0	72.0-123			0.0359	20
Chloromethane	0.125	0.135	0.129	108	103	51.0-138			4.39	20
2-Chlorotoluene	0.125	0.117	0.120	94.0	95.7	75.0-124			1.84	20
4-Chlorotoluene	0.125	0.112	0.113	89.3	90.6	75.0-124			1.49	20
1,2-Dibromoethane	0.125	0.117	0.122	93.3	97.4	74.0-128			4.26	20
Dibromomethane	0.125	0.115	0.113	92.1	90.2	75.0-122			2.07	20
1,2-Dichlorobenzene	0.125	0.124	0.129	99.0	103	76.0-124			4.13	20
1,3-Dichlorobenzene	0.125	0.121	0.126	97.1	101	76.0-125			3.64	20
1,4-Dichlorobenzene	0.125	0.120	0.124	96.0	99.5	77.0-121			3.66	20
1,1-Dichloroethane	0.125	0.113	0.114	90.0	90.9	70.0-127			1.00	20
1,2-Dichloroethane	0.125	0.132	0.132	105	105	65.0-131			0.0596	20
trans-1,2-Dichloroethene	0.125	0.115	0.113	91.7	90.8	71.0-125			1.01	20
1,2-Dichloropropane	0.125	0.123	0.127	98.4	102	74.0-125			3.61	20
1,1-Dichloropropene	0.125	0.111	0.112	88.5	89.4	73.0-125			0.946	20
1,3-Dichloropropane	0.125	0.122	0.127	97.4	101	80.0-125			4.04	20
cis-1,3-Dichloropropene	0.125	0.117	0.124	93.4	99.2	76.0-127			6.02	20
trans-1,3-Dichloropropene	0.125	0.112	0.119	90.0	95.2	73.0-127			5.68	20
2,2-Dichloropropane	0.125	0.131	0.133	105	106	59.0-135			1.11	20
Ethylbenzene	0.125	0.120	0.125	96.0	99.8	74.0-126			3.92	20
Hexachloro-1,3-butadiene	0.125	0.0918	0.0972	73.5	77.8	57.0-150			5.74	20
2-Hexanone	0.625	0.485	0.511	77.5	81.8	54.0-147			5.33	20
n-Hexane	0.125	0.130	0.131	104	105	55.0-137			1.01	20
Iodomethane	0.625	0.596	0.598	95.3	95.6	74.0-134			0.358	20
Isopropylbenzene	0.125	0.111	0.112	88.5	89.4	72.0-127			1.03	20
p-Isopropyltoluene	0.125	0.111	0.113	89.1	90.6	72.0-133			1.65	20
2-Butanone (MEK)	0.625	0.545	0.549	87.2	87.8	30.0-160			0.701	24
Methylene Chloride	0.125	0.118	0.121	94.7	97.0	68.0-123			2.45	20
4-Methyl-2-pentanone (MIBK)	0.625	0.536	0.560	85.8	89.6	56.0-143			4.38	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R3378580-1 01/24/19 11:16 • (LCSD) R3378580-2 01/24/19 11:38

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 %
Methyl tert-butyl ether	0.125	0.111	0.109	89.0	87.2	66.0-132			2.08	20
Naphthalene	0.125	0.0646	0.0735	51.7	58.8	59.0-130	J4	J4	12.9	20
n-Propylbenzene	0.125	0.114	0.117	91.4	93.3	74.0-126			2.00	20
Styrene	0.125	0.114	0.118	91.5	94.4	72.0-127			3.06	20
1,1,1,2-Tetrachloroethane	0.125	0.117	0.121	93.5	96.7	74.0-129			3.36	20
Tetrachloroethene	0.125	0.137	0.143	110	115	70.0-136			4.27	20
Toluene	0.125	0.124	0.131	99.1	104	75.0-121			5.28	20
1,1,2-Trichlorotrifluoroethane	0.125	0.117	0.119	93.9	95.1	61.0-139			1.24	20
1,2,3-Trichlorobenzene	0.125	0.0611	0.0733	48.9	58.6	59.0-139	J4	J4	18.1	20
1,2,4-Trichlorobenzene	0.125	0.0893	0.0946	71.4	75.7	62.0-137			5.76	20
1,1,1-Trichloroethane	0.125	0.119	0.119	95.3	95.4	69.0-126			0.0909	20
1,1,2-Trichloroethane	0.125	0.118	0.125	94.5	100	78.0-123			5.86	20
Trichloroethene	0.125	0.119	0.121	95.2	96.9	76.0-126			1.76	20
Trichlorofluoromethane	0.125	0.133	0.133	107	106	61.0-142			0.376	20
1,2,3-Trichloropropane	0.125	0.108	0.110	86.7	88.3	67.0-129			1.88	20
1,2,3-Trimethylbenzene	0.125	0.0870	0.0888	69.6	71.0	74.0-124	J4	J4	2.03	20
1,2,4-Trimethylbenzene	0.125	0.109	0.110	87.4	88.0	70.0-126			0.704	20
1,3,5-Trimethylbenzene	0.125	0.114	0.115	91.2	92.0	73.0-127			0.918	20
Vinyl acetate	0.625	1.01	1.02	162	162	43.0-159	J4	J4	0.496	20
Vinyl chloride	0.125	0.139	0.137	111	109	63.0-134			1.96	20
Xylenes, Total	0.375	0.362	0.374	96.5	99.7	72.0-127			3.26	20
(S) Toluene-d8				102	104	75.0-131				
(S) Dibromofluoromethane				91.0	90.3	65.0-129				
(S) a,a,a-Trifluorotoluene				102	101	80.0-120				
(S) 4-Bromofluorobenzene				88.6	88.3	67.0-138				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3378928-2 01/25/19 23:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
Di-isopropyl ether	U		0.000350	0.00100
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
(S) Toluene-d8	108			75.0-131
(S) Dibromofluoromethane	78.6			65.0-129
(S) a,a,a-Trifluorotoluene	114			80.0-120
(S) 4-Bromofluorobenzene	101			67.0-138

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R3378928-1 01/25/19 21:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2-Dibromo-3-Chloropropane	0.125	0.156	125	59.0-130	
trans-1,4-Dichloro-2-butene	0.125	0.109	87.3	45.0-143	
Dichlorodifluoromethane	0.125	0.164	131	43.0-156	
1,1-Dichloroethene	0.125	0.114	91.0	65.0-131	
cis-1,2-Dichloroethene	0.125	0.0964	77.1	73.0-125	
Di-isopropyl ether	0.125	0.101	80.5	60.0-136	
1,1,2,2-Tetrachloroethane	0.125	0.100	80.1	68.0-128	
(S) Toluene-d8			107	75.0-131	
(S) Dibromofluoromethane			94.5	65.0-129	
(S) a,a,a-Trifluorotoluene			105	80.0-120	
(S) 4-Bromofluorobenzene			100	67.0-138	



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, the sample preparation volume or weight values differ from the standard, 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.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
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.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
J4	The associated batch QC was outside the established quality control range for accuracy.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc



Pace National 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.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

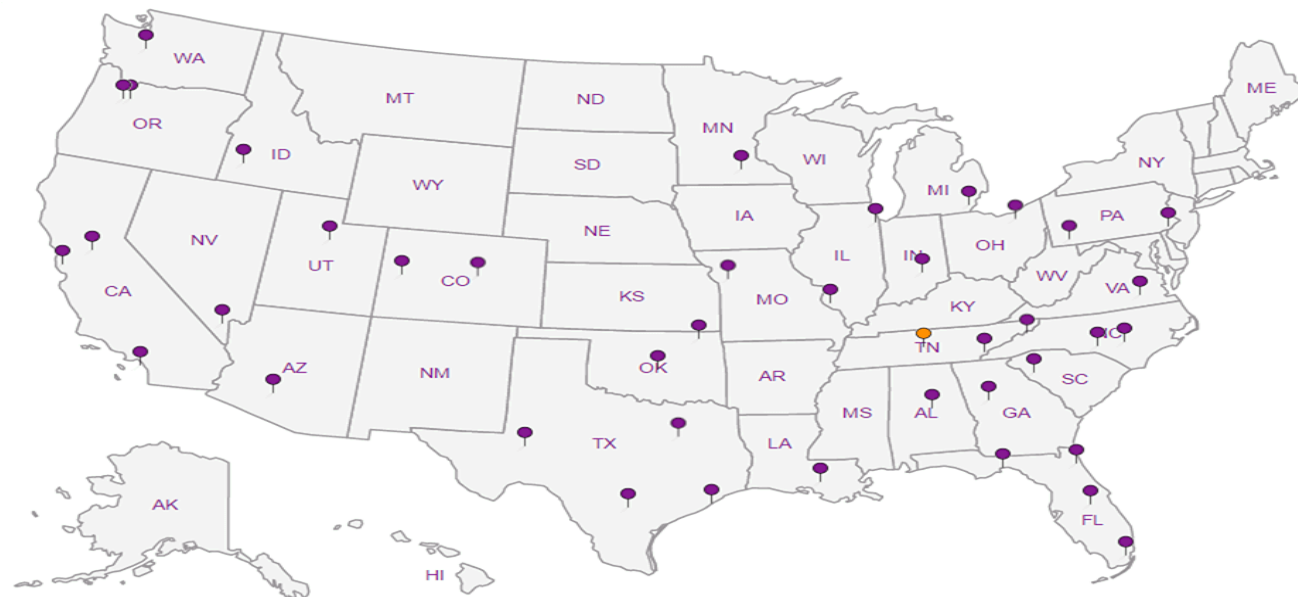
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National 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. Pace National 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 ____ of ____



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-258-5858
Phone: 800-767-5859
Fax: 615-258-5859



Report to:
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;
bhaldeman@pesenv.com; KVIK@PESENV.COM

Project
Description: American Linen

City/State
Collected:

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

Client Project #
1413.001.05.501

Lab Project #
PESENVSWA-ALP

Collected by (print):
Ben H & Rachel M.

Site/Facility ID #
American Linen

P.O. #

Collected by (signature):

15/1/19
[Signature]
Immediately

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

No.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
A9C9-3	Grab	GWSS	3	1-21-19	0920	2
A9C9-6		GWSS	6		0930	2
A9C9-10		GWSS	10		1010	2
B2D2-10		GWSS	10		0940	2
TB-012219		OT		1-22-19	1100	1

VOCs 8260C 40mlamb/MeOH5ml/Syr

dry weight 2ozClr-NoPres

trip blk VOC 8260LLC 40mlamb-HCl-Bik

GRO by NWTPH-Gx

L# L1063347
D201

Acctnum: PESENVSWA

Template: T144906

Prelogin: P689591

TSR: 110 - Brian Ford

PB:

Shipped Via:

Remarks Sample # (lab only)

-01

-02

-03

-04

-05

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - Wastewater
DW - Drinking Water
OT - Other BLANK

Remarks:

Samples returned via:
☒ UPS ☐ FedEx ☐ Courier

RAD SCREEN: <0.5 mR/hr

pH Temp

Flow Other

Tracking # 4757 5077 4092

Relinquished by: (Signature)

[Signature]

Date: 1-22-19 Time: 1100

Received by: (Signature)

[Signature]

Trip Blank Received: Yes/ No

HCL/ MeOH
TBR

Relinquished by: (Signature)

[Signature]

Date: 1-22-19 Time: 1700

Received by: (Signature)

[Signature]

Temp: All BFC

0.9±0

Bottles Received:

8

Sample Receipt Checklist

QOC Seal Present/Intact: ☒ Y ☐ N
QOC 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

Relinquished by: (Signature)

[Signature]

Date:

Received for lab by: (Signature)

[Signature]

Date: 1/23/19 Time: 8:45

Hold:

Condition: NCF / OK

January 30, 2019

PES Environmental, Inc.- WA

Sample Delivery Group: L1064712
Samples Received: 01/28/2019
Project Number: 1413.001.02.501
Description: American Linen

Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:



Jason Romer
Project Manager

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 Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Sr: Sample Results	6
MW-164-80 L1064712-01	6
MW-164-87 L1064712-02	8
MW-164-90 L1064712-03	10
MW-164-95 L1064712-04	12
MW-164-100 L1064712-05	14
MW-164-105 L1064712-06	16
MW-164-110 L1064712-07	18
TB-012519 L1064712-08	20
B-929-120 L1064712-09	22
Qc: Quality Control Summary	24
Total Solids by Method 2540 G-2011	24
Volatile Organic Compounds (GC/MS) by Method 8260C	25
Gl: Glossary of Terms	38
Al: Accreditations & Locations	39
Sc: Sample Chain of Custody	40



SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-164-80 L1064712-01 Solid

Collected by
R. McLaughlin

Collected date/time
01/24/19 16:15

Received date/time
01/28/19 10:00

¹ Cp

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1229369	1	01/28/19 15:16	01/28/19 15:36	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229639	1	01/24/19 16:15	01/29/19 11:56	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229916	1	01/24/19 16:15	01/30/19 12:04	JHH

² Tc

³ Ss

MW-164-87 L1064712-02 Solid

Collected by
R. McLaughlin

Collected date/time
01/24/19 16:18

Received date/time
01/28/19 10:00

⁴ Cn

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1229369	1	01/28/19 15:16	01/28/19 15:36	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229639	1	01/24/19 16:18	01/29/19 12:16	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229916	1	01/24/19 16:18	01/30/19 12:23	JHH

⁵ Sr

⁶ Qc

⁷ Gl

MW-164-90 L1064712-03 Solid

Collected by
R. McLaughlin

Collected date/time
01/24/19 16:20

Received date/time
01/28/19 10:00

⁸ Al

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1229369	1	01/28/19 15:16	01/28/19 15:36	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229639	1	01/24/19 16:20	01/29/19 12:36	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229916	1	01/24/19 16:20	01/30/19 12:42	JHH

⁹ Sc

MW-164-95 L1064712-04 Solid

Collected by
R. McLaughlin

Collected date/time
01/25/19 09:15

Received date/time
01/28/19 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1229369	1	01/28/19 15:16	01/28/19 15:36	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229639	1	01/25/19 09:15	01/29/19 12:56	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229916	1	01/25/19 09:15	01/30/19 13:01	JHH

MW-164-100 L1064712-05 Solid

Collected by
R. McLaughlin

Collected date/time
01/25/19 09:30

Received date/time
01/28/19 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1229369	1	01/28/19 15:16	01/28/19 15:36	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229639	1	01/25/19 09:30	01/29/19 13:15	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229916	1	01/25/19 09:30	01/30/19 13:20	JHH

MW-164-105 L1064712-06 Solid

Collected by
R. McLaughlin

Collected date/time
01/25/19 09:20

Received date/time
01/28/19 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1229369	1	01/28/19 15:16	01/28/19 15:36	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229639	1	01/25/19 09:20	01/29/19 15:57	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1230028	1	01/25/19 09:20	01/30/19 13:39	BMB

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-164-110 L1064712-07 Solid

Collected by
R. McLaughlin

Collected date/time
01/25/19 09:10

Received date/time
01/28/19 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1229369	1	01/28/19 15:16	01/28/19 15:36	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229639	1	01/25/19 09:10	01/29/19 16:18	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1230028	1	01/25/19 09:10	01/30/19 13:58	BMB

¹ Cp

² Tc

³ Ss

TB-012519 L1064712-08 GW

Collected by
R. McLaughlin

Collected date/time
01/25/19 12:30

Received date/time
01/28/19 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229314	1	01/28/19 17:55	01/28/19 17:55	CAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229419	1	01/28/19 18:57	01/28/19 18:57	JBE

⁴ Cn

⁵ Sr

⁶ Qc

B-929-120 L1064712-09 Solid

Collected by
R. McLaughlin

Collected date/time
01/25/19 10:00

Received date/time
01/28/19 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1229369	1	01/28/19 15:16	01/28/19 15:36	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229639	1	01/25/19 10:00	01/29/19 16:38	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1230028	1	01/25/19 10:00	01/30/19 14:17	BMB

⁷ Gl

⁸ Al

⁹ Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, 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.

Jason Romer
Project Manager

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	87.8		1	01/28/2019 15:36	WG1229369

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0247	B J JO	0.0156	0.0285	1	01/30/2019 12:04	WG1229916
Acrylonitrile	U		0.00216	0.0142	1	01/29/2019 11:56	WG1229639
Benzene	U		0.000455	0.00114	1	01/29/2019 11:56	WG1229639
Bromobenzene	U		0.00120	0.0142	1	01/29/2019 11:56	WG1229639
Bromodichloromethane	U		0.000897	0.00285	1	01/29/2019 11:56	WG1229639
Bromochloromethane	U		0.00129	0.00569	1	01/29/2019 11:56	WG1229639
Bromoform	U		0.00681	0.0285	1	01/29/2019 11:56	WG1229639
Bromomethane	U		0.00421	0.0142	1	01/29/2019 11:56	WG1229639
n-Butylbenzene	U		0.00437	0.0142	1	01/29/2019 11:56	WG1229639
sec-Butylbenzene	U		0.00288	0.0142	1	01/29/2019 11:56	WG1229639
tert-Butylbenzene	U		0.00176	0.00569	1	01/29/2019 11:56	WG1229639
Carbon disulfide	U		0.00462	0.0142	1	01/29/2019 11:56	WG1229639
Carbon tetrachloride	U		0.00123	0.00569	1	01/29/2019 11:56	WG1229639
Chlorobenzene	U		0.000652	0.00285	1	01/29/2019 11:56	WG1229639
Chlorodibromomethane	U		0.000512	0.00285	1	01/29/2019 11:56	WG1229639
Chloroethane	U		0.00123	0.00569	1	01/29/2019 11:56	WG1229639
Chloroform	0.00161	J	0.000473	0.00285	1	01/29/2019 11:56	WG1229639
Chloromethane	U		0.00158	0.0142	1	01/29/2019 11:56	WG1229639
2-Chlorotoluene	U		0.00105	0.00285	1	01/29/2019 11:56	WG1229639
4-Chlorotoluene	U		0.00129	0.00569	1	01/29/2019 11:56	WG1229639
1,2-Dibromo-3-Chloropropane	U		0.00581	0.0285	1	01/29/2019 11:56	WG1229639
1,2-Dibromoethane	U		0.000598	0.00285	1	01/29/2019 11:56	WG1229639
Dibromomethane	U		0.00114	0.00569	1	01/29/2019 11:56	WG1229639
1,2-Dichlorobenzene	U		0.00165	0.00569	1	01/29/2019 11:56	WG1229639
1,3-Dichlorobenzene	U		0.00194	0.00569	1	01/29/2019 11:56	WG1229639
1,4-Dichlorobenzene	U		0.00224	0.00569	1	01/29/2019 11:56	WG1229639
Dichlorodifluoromethane	U		0.000931	0.00285	1	01/29/2019 11:56	WG1229639
1,1-Dichloroethane	U		0.000655	0.00285	1	01/29/2019 11:56	WG1229639
1,2-Dichloroethane	U		0.000541	0.00285	1	01/29/2019 11:56	WG1229639
1,1-Dichloroethene	U		0.000569	0.00285	1	01/29/2019 11:56	WG1229639
cis-1,2-Dichloroethene	0.0194		0.000786	0.00285	1	01/29/2019 11:56	WG1229639
trans-1,2-Dichloroethene	U		0.00163	0.00569	1	01/29/2019 11:56	WG1229639
1,2-Dichloropropane	U		0.00145	0.00569	1	01/30/2019 12:04	WG1229916
1,1-Dichloropropene	U		0.000797	0.00285	1	01/29/2019 11:56	WG1229639
1,3-Dichloropropane	U		0.00199	0.00569	1	01/29/2019 11:56	WG1229639
cis-1,3-Dichloropropene	U		0.000772	0.00285	1	01/29/2019 11:56	WG1229639
trans-1,3-Dichloropropene	U		0.00174	0.00569	1	01/29/2019 11:56	WG1229639
trans-1,4-Dichloro-2-butene	U		0.00159	0.00569	1	01/29/2019 11:56	WG1229639
2,2-Dichloropropane	U		0.000903	0.00285	1	01/29/2019 11:56	WG1229639
Di-isopropyl ether	U		0.000399	0.00114	1	01/29/2019 11:56	WG1229639
Ethylbenzene	U		0.000603	0.00285	1	01/29/2019 11:56	WG1229639
Hexachloro-1,3-butadiene	U		0.0145	0.0285	1	01/29/2019 11:56	WG1229639
2-Hexanone	U		0.0114	0.0285	1	01/29/2019 11:56	WG1229639
n-Hexane	U		0.00121	0.00569	1	01/29/2019 11:56	WG1229639
Iodomethane	U		0.00689	0.0142	1	01/29/2019 11:56	WG1229639
Isopropylbenzene	U		0.000983	0.00285	1	01/29/2019 11:56	WG1229639
p-Isopropyltoluene	U		0.00265	0.00569	1	01/29/2019 11:56	WG1229639
2-Butanone (MEK)	U		0.0142	0.0285	1	01/30/2019 12:04	WG1229916
Methylene Chloride	U		0.00756	0.0285	1	01/29/2019 11:56	WG1229639
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0285	1	01/29/2019 11:56	WG1229639





Collected date/time: 01/24/19 16:15

L1064712

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000336	0.00114	1	01/29/2019 11:56	WG1229639
Naphthalene	U		0.00355	0.0142	1	01/29/2019 11:56	WG1229639
n-Propylbenzene	U		0.00134	0.00569	1	01/29/2019 11:56	WG1229639
Styrene	U		0.00311	0.0142	1	01/29/2019 11:56	WG1229639
1,1,1,2-Tetrachloroethane	U		0.000569	0.00285	1	01/29/2019 11:56	WG1229639
1,1,2,2-Tetrachloroethane	U		0.000444	0.00285	1	01/29/2019 11:56	WG1229639
1,1,2-Trichlorotrifluoroethane	U		0.000769	0.00285	1	01/29/2019 11:56	WG1229639
Tetrachloroethene	0.00236	J	0.000797	0.00285	1	01/29/2019 11:56	WG1229639
Toluene	U		0.00142	0.00569	1	01/29/2019 11:56	WG1229639
1,2,3-Trichlorobenzene	U		0.000712	0.00285	1	01/29/2019 11:56	WG1229639
1,2,4-Trichlorobenzene	U		0.00549	0.0142	1	01/29/2019 11:56	WG1229639
1,1,1-Trichloroethane	U		0.000313	0.00285	1	01/29/2019 11:56	WG1229639
1,1,2-Trichloroethane	U		0.00101	0.00285	1	01/29/2019 11:56	WG1229639
Trichloroethene	U		0.000455	0.00114	1	01/29/2019 11:56	WG1229639
Trichlorofluoromethane	U		0.000569	0.00285	1	01/29/2019 11:56	WG1229639
1,2,3-Trichloropropane	U		0.00581	0.0142	1	01/29/2019 11:56	WG1229639
1,2,4-Trimethylbenzene	U		0.00132	0.00569	1	01/29/2019 11:56	WG1229639
1,2,3-Trimethylbenzene	U		0.00131	0.00569	1	01/29/2019 11:56	WG1229639
1,3,5-Trimethylbenzene	U		0.00123	0.00569	1	01/29/2019 11:56	WG1229639
Vinyl acetate	U		0.00401	0.0142	1	01/29/2019 11:56	WG1229639
Vinyl chloride	0.0313		0.000778	0.00285	1	01/29/2019 11:56	WG1229639
Xylenes, Total	U		0.00544	0.00740	1	01/29/2019 11:56	WG1229639
(S) Toluene-d8	105			75.0-131		01/29/2019 11:56	WG1229639
(S) Toluene-d8	96.5			75.0-131		01/30/2019 12:04	WG1229916
(S) Dibromofluoromethane	84.8			65.0-129		01/29/2019 11:56	WG1229639
(S) Dibromofluoromethane	108			65.0-129		01/30/2019 12:04	WG1229916
(S) 4-Bromofluorobenzene	98.0			67.0-138		01/29/2019 11:56	WG1229639
(S) 4-Bromofluorobenzene	117			67.0-138		01/30/2019 12:04	WG1229916

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



Collected date/time: 01/24/19 16:18

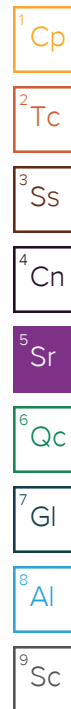
L1064712

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.3		1	01/28/2019 15:36	WG1229369

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0393	B JO	0.0153	0.0280	1	01/30/2019 12:23	WG1229916
Acrylonitrile	U		0.00213	0.0140	1	01/29/2019 12:16	WG1229639
Benzene	U		0.000448	0.00112	1	01/29/2019 12:16	WG1229639
Bromobenzene	U		0.00118	0.0140	1	01/29/2019 12:16	WG1229639
Bromodichloromethane	U		0.000882	0.00280	1	01/29/2019 12:16	WG1229639
Bromochloromethane	U		0.00126	0.00560	1	01/29/2019 12:16	WG1229639
Bromoform	U		0.00669	0.0280	1	01/29/2019 12:16	WG1229639
Bromomethane	U		0.00414	0.0140	1	01/29/2019 12:16	WG1229639
n-Butylbenzene	U		0.00430	0.0140	1	01/29/2019 12:16	WG1229639
sec-Butylbenzene	U		0.00283	0.0140	1	01/29/2019 12:16	WG1229639
tert-Butylbenzene	U		0.00174	0.00560	1	01/29/2019 12:16	WG1229639
Carbon disulfide	U		0.00454	0.0140	1	01/29/2019 12:16	WG1229639
Carbon tetrachloride	U		0.00121	0.00560	1	01/29/2019 12:16	WG1229639
Chlorobenzene	U		0.000641	0.00280	1	01/29/2019 12:16	WG1229639
Chlorodibromomethane	U		0.000504	0.00280	1	01/29/2019 12:16	WG1229639
Chloroethane	U		0.00121	0.00560	1	01/29/2019 12:16	WG1229639
Chloroform	0.00159	J	0.000465	0.00280	1	01/29/2019 12:16	WG1229639
Chloromethane	U		0.00156	0.0140	1	01/29/2019 12:16	WG1229639
2-Chlorotoluene	U		0.00103	0.00280	1	01/29/2019 12:16	WG1229639
4-Chlorotoluene	U		0.00126	0.00560	1	01/29/2019 12:16	WG1229639
1,2-Dibromo-3-Chloropropane	U		0.00571	0.0280	1	01/29/2019 12:16	WG1229639
1,2-Dibromoethane	U		0.000588	0.00280	1	01/29/2019 12:16	WG1229639
Dibromomethane	U		0.00112	0.00560	1	01/29/2019 12:16	WG1229639
1,2-Dichlorobenzene	U		0.00162	0.00560	1	01/29/2019 12:16	WG1229639
1,3-Dichlorobenzene	U		0.00190	0.00560	1	01/29/2019 12:16	WG1229639
1,4-Dichlorobenzene	U		0.00221	0.00560	1	01/29/2019 12:16	WG1229639
Dichlorodifluoromethane	U		0.000916	0.00280	1	01/29/2019 12:16	WG1229639
1,1-Dichloroethane	U		0.000644	0.00280	1	01/29/2019 12:16	WG1229639
1,2-Dichloroethane	U		0.000532	0.00280	1	01/29/2019 12:16	WG1229639
1,1-Dichloroethene	U		0.000560	0.00280	1	01/29/2019 12:16	WG1229639
cis-1,2-Dichloroethene	0.00519		0.000772	0.00280	1	01/29/2019 12:16	WG1229639
trans-1,2-Dichloroethene	U		0.00160	0.00560	1	01/29/2019 12:16	WG1229639
1,2-Dichloropropane	U		0.00142	0.00560	1	01/30/2019 12:23	WG1229916
1,1-Dichloropropene	U		0.000784	0.00280	1	01/29/2019 12:16	WG1229639
1,3-Dichloropropane	U		0.00196	0.00560	1	01/29/2019 12:16	WG1229639
cis-1,3-Dichloropropene	U		0.000759	0.00280	1	01/29/2019 12:16	WG1229639
trans-1,3-Dichloropropene	U		0.00171	0.00560	1	01/29/2019 12:16	WG1229639
trans-1,4-Dichloro-2-butene	U		0.00157	0.00560	1	01/29/2019 12:16	WG1229639
2,2-Dichloropropane	U		0.000888	0.00280	1	01/29/2019 12:16	WG1229639
Di-isopropyl ether	U		0.000392	0.00112	1	01/29/2019 12:16	WG1229639
Ethylbenzene	U		0.000593	0.00280	1	01/29/2019 12:16	WG1229639
Hexachloro-1,3-butadiene	U		0.0142	0.0280	1	01/29/2019 12:16	WG1229639
2-Hexanone	U		0.0112	0.0280	1	01/29/2019 12:16	WG1229639
n-Hexane	U		0.00119	0.00560	1	01/29/2019 12:16	WG1229639
Iodomethane	U		0.00677	0.0140	1	01/29/2019 12:16	WG1229639
Isopropylbenzene	U		0.000966	0.00280	1	01/29/2019 12:16	WG1229639
p-Isopropyltoluene	U		0.00261	0.00560	1	01/29/2019 12:16	WG1229639
2-Butanone (MEK)	0.0327		0.0140	0.0280	1	01/30/2019 12:23	WG1229916
Methylene Chloride	U		0.00743	0.0280	1	01/29/2019 12:16	WG1229639
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0280	1	01/29/2019 12:16	WG1229639





Collected date/time: 01/24/19 16:18

L1064712

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000330	0.00112	1	01/29/2019 12:16	WG1229639
Naphthalene	U		0.00349	0.0140	1	01/29/2019 12:16	WG1229639
n-Propylbenzene	U		0.00132	0.00560	1	01/29/2019 12:16	WG1229639
Styrene	U		0.00306	0.0140	1	01/29/2019 12:16	WG1229639
1,1,1,2-Tetrachloroethane	U		0.000560	0.00280	1	01/29/2019 12:16	WG1229639
1,1,2,2-Tetrachloroethane	U		0.000437	0.00280	1	01/29/2019 12:16	WG1229639
1,1,2-Trichlorotrifluoroethane	U		0.000756	0.00280	1	01/29/2019 12:16	WG1229639
Tetrachloroethene	0.00102	U	0.000784	0.00280	1	01/29/2019 12:16	WG1229639
Toluene	U		0.00140	0.00560	1	01/29/2019 12:16	WG1229639
1,2,3-Trichlorobenzene	U		0.000700	0.00280	1	01/29/2019 12:16	WG1229639
1,2,4-Trichlorobenzene	U		0.00540	0.0140	1	01/29/2019 12:16	WG1229639
1,1,1-Trichloroethane	U		0.000308	0.00280	1	01/29/2019 12:16	WG1229639
1,1,2-Trichloroethane	U		0.000988	0.00280	1	01/29/2019 12:16	WG1229639
Trichloroethene	U		0.000448	0.00112	1	01/29/2019 12:16	WG1229639
Trichlorofluoromethane	U		0.000560	0.00280	1	01/29/2019 12:16	WG1229639
1,2,3-Trichloropropane	U		0.00571	0.0140	1	01/29/2019 12:16	WG1229639
1,2,4-Trimethylbenzene	U		0.00130	0.00560	1	01/29/2019 12:16	WG1229639
1,2,3-Trimethylbenzene	U		0.00129	0.00560	1	01/29/2019 12:16	WG1229639
1,3,5-Trimethylbenzene	U		0.00121	0.00560	1	01/29/2019 12:16	WG1229639
Vinyl acetate	U		0.00394	0.0140	1	01/29/2019 12:16	WG1229639
Vinyl chloride	0.0349		0.000765	0.00280	1	01/29/2019 12:16	WG1229639
Xylenes, Total	U		0.00535	0.00728	1	01/29/2019 12:16	WG1229639
(S) Toluene-d8	105			75.0-131		01/29/2019 12:16	WG1229639
(S) Toluene-d8	94.4			75.0-131		01/30/2019 12:23	WG1229916
(S) Dibromofluoromethane	83.5			65.0-129		01/29/2019 12:16	WG1229639
(S) Dibromofluoromethane	109			65.0-129		01/30/2019 12:23	WG1229916
(S) 4-Bromofluorobenzene	104			67.0-138		01/29/2019 12:16	WG1229639
(S) 4-Bromofluorobenzene	119			67.0-138		01/30/2019 12:23	WG1229916

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

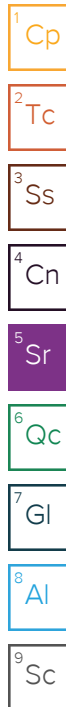


Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.4		1	01/28/2019 15:36	WG1229369

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0281	B J JO	0.0160	0.0293	1	01/30/2019 12:42	WG1229916
Acrylonitrile	U		0.00223	0.0146	1	01/29/2019 12:36	WG1229639
Benzene	U		0.000468	0.00117	1	01/29/2019 12:36	WG1229639
Bromobenzene	U		0.00123	0.0146	1	01/29/2019 12:36	WG1229639
Bromodichloromethane	U		0.000923	0.00293	1	01/29/2019 12:36	WG1229639
Bromochloromethane	U		0.00132	0.00586	1	01/29/2019 12:36	WG1229639
Bromoform	U		0.00700	0.0293	1	01/29/2019 12:36	WG1229639
Bromomethane	U		0.00433	0.0146	1	01/29/2019 12:36	WG1229639
n-Butylbenzene	U		0.00450	0.0146	1	01/29/2019 12:36	WG1229639
sec-Butylbenzene	U		0.00296	0.0146	1	01/29/2019 12:36	WG1229639
tert-Butylbenzene	U		0.00182	0.00586	1	01/29/2019 12:36	WG1229639
Carbon disulfide	U		0.00476	0.0146	1	01/29/2019 12:36	WG1229639
Carbon tetrachloride	U		0.00126	0.00586	1	01/29/2019 12:36	WG1229639
Chlorobenzene	U		0.000671	0.00293	1	01/29/2019 12:36	WG1229639
Chlorodibromomethane	U		0.000527	0.00293	1	01/29/2019 12:36	WG1229639
Chloroethane	U		0.00126	0.00586	1	01/29/2019 12:36	WG1229639
Chloroform	0.00225	J	0.000486	0.00293	1	01/29/2019 12:36	WG1229639
Chloromethane	U		0.00163	0.0146	1	01/29/2019 12:36	WG1229639
2-Chlorotoluene	U		0.00108	0.00293	1	01/29/2019 12:36	WG1229639
4-Chlorotoluene	U		0.00132	0.00586	1	01/29/2019 12:36	WG1229639
1,2-Dibromo-3-Chloropropane	U		0.00597	0.0293	1	01/29/2019 12:36	WG1229639
1,2-Dibromoethane	U		0.000615	0.00293	1	01/29/2019 12:36	WG1229639
Dibromomethane	U		0.00117	0.00586	1	01/29/2019 12:36	WG1229639
1,2-Dichlorobenzene	U		0.00170	0.00586	1	01/29/2019 12:36	WG1229639
1,3-Dichlorobenzene	U		0.00199	0.00586	1	01/29/2019 12:36	WG1229639
1,4-Dichlorobenzene	U		0.00231	0.00586	1	01/29/2019 12:36	WG1229639
Dichlorodifluoromethane	U		0.000958	0.00293	1	01/29/2019 12:36	WG1229639
1,1-Dichloroethane	U		0.000673	0.00293	1	01/29/2019 12:36	WG1229639
1,2-Dichloroethane	U		0.000556	0.00293	1	01/29/2019 12:36	WG1229639
1,1-Dichloroethene	U		0.000586	0.00293	1	01/29/2019 12:36	WG1229639
cis-1,2-Dichloroethene	0.0870		0.000808	0.00293	1	01/29/2019 12:36	WG1229639
trans-1,2-Dichloroethene	0.00250	J	0.00167	0.00586	1	01/29/2019 12:36	WG1229639
1,2-Dichloropropane	U		0.00149	0.00586	1	01/30/2019 12:42	WG1229916
1,1-Dichloropropene	U		0.000820	0.00293	1	01/29/2019 12:36	WG1229639
1,3-Dichloropropane	U		0.00205	0.00586	1	01/29/2019 12:36	WG1229639
cis-1,3-Dichloropropene	U		0.000794	0.00293	1	01/29/2019 12:36	WG1229639
trans-1,3-Dichloropropene	U		0.00179	0.00586	1	01/29/2019 12:36	WG1229639
trans-1,4-Dichloro-2-butene	U		0.00164	0.00586	1	01/29/2019 12:36	WG1229639
2,2-Dichloropropane	U		0.000929	0.00293	1	01/29/2019 12:36	WG1229639
Di-isopropyl ether	U		0.000410	0.00117	1	01/29/2019 12:36	WG1229639
Ethylbenzene	U		0.000621	0.00293	1	01/29/2019 12:36	WG1229639
Hexachloro-1,3-butadiene	U		0.0149	0.0293	1	01/29/2019 12:36	WG1229639
2-Hexanone	U		0.0117	0.0293	1	01/29/2019 12:36	WG1229639
n-Hexane	U		0.00124	0.00586	1	01/29/2019 12:36	WG1229639
Iodomethane	U		0.00709	0.0146	1	01/29/2019 12:36	WG1229639
Isopropylbenzene	U		0.00101	0.00293	1	01/29/2019 12:36	WG1229639
p-Isopropyltoluene	U		0.00273	0.00586	1	01/29/2019 12:36	WG1229639
2-Butanone (MEK)	0.0262	J	0.0146	0.0293	1	01/30/2019 12:42	WG1229916
Methylene Chloride	U		0.00778	0.0293	1	01/29/2019 12:36	WG1229639
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0293	1	01/29/2019 12:36	WG1229639





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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000346	0.00117	1	01/29/2019 12:36	WG1229639
Naphthalene	U		0.00365	0.0146	1	01/29/2019 12:36	WG1229639
n-Propylbenzene	U		0.00138	0.00586	1	01/29/2019 12:36	WG1229639
Styrene	U		0.00320	0.0146	1	01/29/2019 12:36	WG1229639
1,1,1,2-Tetrachloroethane	U		0.000586	0.00293	1	01/29/2019 12:36	WG1229639
1,1,2,2-Tetrachloroethane	U		0.000457	0.00293	1	01/29/2019 12:36	WG1229639
1,1,2-Trichlorotrifluoroethane	U		0.000791	0.00293	1	01/29/2019 12:36	WG1229639
Tetrachloroethene	0.428		0.000820	0.00293	1	01/29/2019 12:36	WG1229639
Toluene	U		0.00146	0.00586	1	01/29/2019 12:36	WG1229639
1,2,3-Trichlorobenzene	U		0.000732	0.00293	1	01/29/2019 12:36	WG1229639
1,2,4-Trichlorobenzene	U		0.00565	0.0146	1	01/29/2019 12:36	WG1229639
1,1,1-Trichloroethane	U		0.000322	0.00293	1	01/29/2019 12:36	WG1229639
1,1,2-Trichloroethane	U		0.00103	0.00293	1	01/29/2019 12:36	WG1229639
Trichloroethene	0.0599		0.000468	0.00117	1	01/29/2019 12:36	WG1229639
Trichlorofluoromethane	U		0.000586	0.00293	1	01/29/2019 12:36	WG1229639
1,2,3-Trichloropropane	U		0.00597	0.0146	1	01/29/2019 12:36	WG1229639
1,2,4-Trimethylbenzene	U		0.00136	0.00586	1	01/29/2019 12:36	WG1229639
1,2,3-Trimethylbenzene	U		0.00135	0.00586	1	01/29/2019 12:36	WG1229639
1,3,5-Trimethylbenzene	U		0.00126	0.00586	1	01/29/2019 12:36	WG1229639
Vinyl acetate	U		0.00412	0.0146	1	01/29/2019 12:36	WG1229639
Vinyl chloride	0.0101		0.000800	0.00293	1	01/29/2019 12:36	WG1229639
Xylenes, Total	U		0.00560	0.00761	1	01/29/2019 12:36	WG1229639
(S) Toluene-d8	111			75.0-131		01/29/2019 12:36	WG1229639
(S) Toluene-d8	98.0			75.0-131		01/30/2019 12:42	WG1229916
(S) Dibromofluoromethane	85.0			65.0-129		01/29/2019 12:36	WG1229639
(S) Dibromofluoromethane	109			65.0-129		01/30/2019 12:42	WG1229916
(S) 4-Bromofluorobenzene	103			67.0-138		01/29/2019 12:36	WG1229639
(S) 4-Bromofluorobenzene	119			67.0-138		01/30/2019 12:42	WG1229916

1 Cp
2 Tc
3 Ss
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8 Al
9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.6		1	01/28/2019 15:36	WG1229369

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0365	B JO	0.0164	0.0299	1	01/30/2019 13:01	WG1229916
Acrylonitrile	U		0.00227	0.0149	1	01/29/2019 12:56	WG1229639
Benzene	U		0.000478	0.00120	1	01/29/2019 12:56	WG1229639
Bromobenzene	U		0.00126	0.0149	1	01/29/2019 12:56	WG1229639
Bromodichloromethane	U		0.000942	0.00299	1	01/29/2019 12:56	WG1229639
Bromochloromethane	U		0.00135	0.00598	1	01/29/2019 12:56	WG1229639
Bromoform	U		0.00715	0.0299	1	01/29/2019 12:56	WG1229639
Bromomethane	U		0.00442	0.0149	1	01/29/2019 12:56	WG1229639
n-Butylbenzene	U		0.00459	0.0149	1	01/29/2019 12:56	WG1229639
sec-Butylbenzene	U		0.00303	0.0149	1	01/29/2019 12:56	WG1229639
tert-Butylbenzene	U		0.00185	0.00598	1	01/29/2019 12:56	WG1229639
Carbon disulfide	U		0.00486	0.0149	1	01/29/2019 12:56	WG1229639
Carbon tetrachloride	U		0.00129	0.00598	1	01/29/2019 12:56	WG1229639
Chlorobenzene	U		0.000685	0.00299	1	01/29/2019 12:56	WG1229639
Chlorodibromomethane	U		0.000538	0.00299	1	01/29/2019 12:56	WG1229639
Chloroethane	U		0.00129	0.00598	1	01/29/2019 12:56	WG1229639
Chloroform	0.00196	J	0.000496	0.00299	1	01/29/2019 12:56	WG1229639
Chloromethane	U		0.00166	0.0149	1	01/29/2019 12:56	WG1229639
2-Chlorotoluene	U		0.00110	0.00299	1	01/29/2019 12:56	WG1229639
4-Chlorotoluene	U		0.00135	0.00598	1	01/29/2019 12:56	WG1229639
1,2-Dibromo-3-Chloropropane	U		0.00610	0.0299	1	01/29/2019 12:56	WG1229639
1,2-Dibromoethane	U		0.000628	0.00299	1	01/29/2019 12:56	WG1229639
Dibromomethane	U		0.00120	0.00598	1	01/29/2019 12:56	WG1229639
1,2-Dichlorobenzene	U		0.00173	0.00598	1	01/29/2019 12:56	WG1229639
1,3-Dichlorobenzene	U		0.00203	0.00598	1	01/29/2019 12:56	WG1229639
1,4-Dichlorobenzene	U		0.00236	0.00598	1	01/29/2019 12:56	WG1229639
Dichlorodifluoromethane	U		0.000978	0.00299	1	01/29/2019 12:56	WG1229639
1,1-Dichloroethane	U		0.000688	0.00299	1	01/29/2019 12:56	WG1229639
1,2-Dichloroethane	U		0.000568	0.00299	1	01/29/2019 12:56	WG1229639
1,1-Dichloroethene	U		0.000598	0.00299	1	01/29/2019 12:56	WG1229639
cis-1,2-Dichloroethene	0.474		0.000825	0.00299	1	01/29/2019 12:56	WG1229639
trans-1,2-Dichloroethene	0.00379	J	0.00171	0.00598	1	01/29/2019 12:56	WG1229639
1,2-Dichloropropane	U		0.00152	0.00598	1	01/30/2019 13:01	WG1229916
1,1-Dichloropropene	U		0.000837	0.00299	1	01/29/2019 12:56	WG1229639
1,3-Dichloropropane	U		0.00209	0.00598	1	01/29/2019 12:56	WG1229639
cis-1,3-Dichloropropene	U		0.000811	0.00299	1	01/29/2019 12:56	WG1229639
trans-1,3-Dichloropropene	U		0.00183	0.00598	1	01/29/2019 12:56	WG1229639
trans-1,4-Dichloro-2-butene	U		0.00167	0.00598	1	01/29/2019 12:56	WG1229639
2,2-Dichloropropane	U		0.000948	0.00299	1	01/29/2019 12:56	WG1229639
Di-isopropyl ether	U		0.000419	0.00120	1	01/29/2019 12:56	WG1229639
Ethylbenzene	U		0.000634	0.00299	1	01/29/2019 12:56	WG1229639
Hexachloro-1,3-butadiene	U		0.0152	0.0299	1	01/29/2019 12:56	WG1229639
2-Hexanone	U		0.0120	0.0299	1	01/29/2019 12:56	WG1229639
n-Hexane	U		0.00127	0.00598	1	01/29/2019 12:56	WG1229639
Iodomethane	U		0.00723	0.0149	1	01/29/2019 12:56	WG1229639
Isopropylbenzene	U		0.00103	0.00299	1	01/29/2019 12:56	WG1229639
p-Isopropyltoluene	U		0.00279	0.00598	1	01/29/2019 12:56	WG1229639
2-Butanone (MEK)	0.0435		0.0149	0.0299	1	01/30/2019 13:01	WG1229916
Methylene Chloride	U		0.00794	0.0299	1	01/29/2019 12:56	WG1229639
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0299	1	01/29/2019 12:56	WG1229639

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		0.000353	0.00120	1	01/29/2019 12:56	WG1229639
Naphthalene	U		0.00373	0.0149	1	01/29/2019 12:56	WG1229639
n-Propylbenzene	U		0.00141	0.00598	1	01/29/2019 12:56	WG1229639
Styrene	U		0.00326	0.0149	1	01/29/2019 12:56	WG1229639
1,1,1,2-Tetrachloroethane	U		0.000598	0.00299	1	01/29/2019 12:56	WG1229639
1,1,2,2-Tetrachloroethane	U		0.000466	0.00299	1	01/29/2019 12:56	WG1229639
1,1,2-Trichlorotrifluoroethane	U		0.000807	0.00299	1	01/29/2019 12:56	WG1229639
Tetrachloroethene	0.788		0.000837	0.00299	1	01/29/2019 12:56	WG1229639
Toluene	U		0.00149	0.00598	1	01/29/2019 12:56	WG1229639
1,2,3-Trichlorobenzene	U		0.000747	0.00299	1	01/29/2019 12:56	WG1229639
1,2,4-Trichlorobenzene	U		0.00576	0.0149	1	01/29/2019 12:56	WG1229639
1,1,1-Trichloroethane	U		0.000329	0.00299	1	01/29/2019 12:56	WG1229639
1,1,2-Trichloroethane	U		0.00106	0.00299	1	01/29/2019 12:56	WG1229639
Trichloroethene	0.172		0.000478	0.00120	1	01/29/2019 12:56	WG1229639
Trichlorofluoromethane	U		0.000598	0.00299	1	01/29/2019 12:56	WG1229639
1,2,3-Trichloropropane	U		0.00610	0.0149	1	01/29/2019 12:56	WG1229639
1,2,4-Trimethylbenzene	U		0.00139	0.00598	1	01/29/2019 12:56	WG1229639
1,2,3-Trimethylbenzene	U		0.00138	0.00598	1	01/29/2019 12:56	WG1229639
1,3,5-Trimethylbenzene	U		0.00129	0.00598	1	01/29/2019 12:56	WG1229639
Vinyl acetate	U		0.00421	0.0149	1	01/29/2019 12:56	WG1229639
Vinyl chloride	0.00420		0.000817	0.00299	1	01/29/2019 12:56	WG1229639
Xylenes, Total	U		0.00572	0.00777	1	01/29/2019 12:56	WG1229639
(S) Toluene-d8	112			75.0-131		01/29/2019 12:56	WG1229639
(S) Toluene-d8	96.7			75.0-131		01/30/2019 13:01	WG1229916
(S) Dibromofluoromethane	81.8			65.0-129		01/29/2019 12:56	WG1229639
(S) Dibromofluoromethane	109			65.0-129		01/30/2019 13:01	WG1229916
(S) 4-Bromofluorobenzene	104			67.0-138		01/29/2019 12:56	WG1229639
(S) 4-Bromofluorobenzene	116			67.0-138		01/30/2019 13:01	WG1229916

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



Collected date/time: 01/25/19 09:30

L1064712

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.0		1	01/28/2019 15:36	WG1229369

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0332	B JO	0.0171	0.0313	1	01/30/2019 13:20	WG1229916
Acrylonitrile	U		0.00238	0.0156	1	01/29/2019 13:15	WG1229639
Benzene	U		0.000500	0.00125	1	01/29/2019 13:15	WG1229639
Bromobenzene	U		0.00131	0.0156	1	01/29/2019 13:15	WG1229639
Bromodichloromethane	U		0.000985	0.00313	1	01/29/2019 13:15	WG1229639
Bromochloromethane	U		0.00141	0.00625	1	01/29/2019 13:15	WG1229639
Bromoform	U		0.00748	0.0313	1	01/29/2019 13:15	WG1229639
Bromomethane	U		0.00463	0.0156	1	01/29/2019 13:15	WG1229639
n-Butylbenzene	U		0.00480	0.0156	1	01/29/2019 13:15	WG1229639
sec-Butylbenzene	U		0.00316	0.0156	1	01/29/2019 13:15	WG1229639
tert-Butylbenzene	U		0.00194	0.00625	1	01/29/2019 13:15	WG1229639
Carbon disulfide	U		0.00508	0.0156	1	01/29/2019 13:15	WG1229639
Carbon tetrachloride	U		0.00135	0.00625	1	01/29/2019 13:15	WG1229639
Chlorobenzene	U		0.000716	0.00313	1	01/29/2019 13:15	WG1229639
Chlorodibromomethane	U		0.000563	0.00313	1	01/29/2019 13:15	WG1229639
Chloroethane	U		0.00135	0.00625	1	01/29/2019 13:15	WG1229639
Chloroform	0.00197	J	0.000519	0.00313	1	01/29/2019 13:15	WG1229639
Chloromethane	U		0.00174	0.0156	1	01/29/2019 13:15	WG1229639
2-Chlorotoluene	U		0.00115	0.00313	1	01/29/2019 13:15	WG1229639
4-Chlorotoluene	U		0.00141	0.00625	1	01/29/2019 13:15	WG1229639
1,2-Dibromo-3-Chloropropane	U		0.00638	0.0313	1	01/29/2019 13:15	WG1229639
1,2-Dibromoethane	U		0.000656	0.00313	1	01/29/2019 13:15	WG1229639
Dibromomethane	U		0.00125	0.00625	1	01/29/2019 13:15	WG1229639
1,2-Dichlorobenzene	U		0.00181	0.00625	1	01/29/2019 13:15	WG1229639
1,3-Dichlorobenzene	U		0.00213	0.00625	1	01/29/2019 13:15	WG1229639
1,4-Dichlorobenzene	U		0.00246	0.00625	1	01/29/2019 13:15	WG1229639
Dichlorodifluoromethane	U		0.00102	0.00313	1	01/29/2019 13:15	WG1229639
1,1-Dichloroethane	U		0.000719	0.00313	1	01/29/2019 13:15	WG1229639
1,2-Dichloroethane	U		0.000594	0.00313	1	01/29/2019 13:15	WG1229639
1,1-Dichloroethene	U		0.000625	0.00313	1	01/29/2019 13:15	WG1229639
cis-1,2-Dichloroethene	0.00428		0.000863	0.00313	1	01/29/2019 13:15	WG1229639
trans-1,2-Dichloroethene	U		0.00179	0.00625	1	01/29/2019 13:15	WG1229639
1,2-Dichloropropane	U		0.00159	0.00625	1	01/30/2019 13:20	WG1229916
1,1-Dichloropropene	U		0.000875	0.00313	1	01/29/2019 13:15	WG1229639
1,3-Dichloropropane	U		0.00219	0.00625	1	01/29/2019 13:15	WG1229639
cis-1,3-Dichloropropene	U		0.000848	0.00313	1	01/29/2019 13:15	WG1229639
trans-1,3-Dichloropropene	U		0.00191	0.00625	1	01/29/2019 13:15	WG1229639
trans-1,4-Dichloro-2-butene	U		0.00175	0.00625	1	01/29/2019 13:15	WG1229639
2,2-Dichloropropane	U		0.000991	0.00313	1	01/29/2019 13:15	WG1229639
Di-isopropyl ether	U		0.000438	0.00125	1	01/29/2019 13:15	WG1229639
Ethylbenzene	U		0.000663	0.00313	1	01/29/2019 13:15	WG1229639
Hexachloro-1,3-butadiene	U		0.0159	0.0313	1	01/29/2019 13:15	WG1229639
2-Hexanone	U		0.0125	0.0313	1	01/29/2019 13:15	WG1229639
n-Hexane	U		0.00133	0.00625	1	01/29/2019 13:15	WG1229639
Iodomethane	U		0.00756	0.0156	1	01/29/2019 13:15	WG1229639
Isopropylbenzene	U		0.00108	0.00313	1	01/29/2019 13:15	WG1229639
p-Isopropyltoluene	U		0.00291	0.00625	1	01/29/2019 13:15	WG1229639
2-Butanone (MEK)	0.0446		0.0156	0.0313	1	01/30/2019 13:20	WG1229916
Methylene Chloride	U		0.00830	0.0313	1	01/29/2019 13:15	WG1229639
4-Methyl-2-pentanone (MIBK)	U		0.0125	0.0313	1	01/29/2019 13:15	WG1229639

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/25/19 09:30

L1064712

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000369	0.00125	1	01/29/2019 13:15	WG1229639
Naphthalene	U		0.00390	0.0156	1	01/29/2019 13:15	WG1229639
n-Propylbenzene	U		0.00148	0.00625	1	01/29/2019 13:15	WG1229639
Styrene	U		0.00341	0.0156	1	01/29/2019 13:15	WG1229639
1,1,1,2-Tetrachloroethane	U		0.000625	0.00313	1	01/29/2019 13:15	WG1229639
1,1,2,2-Tetrachloroethane	U		0.000488	0.00313	1	01/29/2019 13:15	WG1229639
1,1,2-Trichlorotrifluoroethane	U		0.000844	0.00313	1	01/29/2019 13:15	WG1229639
Tetrachloroethene	0.00777		0.000875	0.00313	1	01/29/2019 13:15	WG1229639
Toluene	U		0.00156	0.00625	1	01/29/2019 13:15	WG1229639
1,2,3-Trichlorobenzene	U		0.000781	0.00313	1	01/29/2019 13:15	WG1229639
1,2,4-Trichlorobenzene	U		0.00603	0.0156	1	01/29/2019 13:15	WG1229639
1,1,1-Trichloroethane	U		0.000344	0.00313	1	01/29/2019 13:15	WG1229639
1,1,2-Trichloroethane	U		0.00110	0.00313	1	01/29/2019 13:15	WG1229639
Trichloroethene	0.0124		0.000500	0.00125	1	01/29/2019 13:15	WG1229639
Trichlorofluoromethane	U		0.000625	0.00313	1	01/29/2019 13:15	WG1229639
1,2,3-Trichloropropane	U		0.00638	0.0156	1	01/29/2019 13:15	WG1229639
1,2,4-Trimethylbenzene	U		0.00145	0.00625	1	01/29/2019 13:15	WG1229639
1,2,3-Trimethylbenzene	U		0.00144	0.00625	1	01/29/2019 13:15	WG1229639
1,3,5-Trimethylbenzene	U		0.00135	0.00625	1	01/29/2019 13:15	WG1229639
Vinyl acetate	U		0.00440	0.0156	1	01/29/2019 13:15	WG1229639
Vinyl chloride	0.00145	J	0.000854	0.00313	1	01/29/2019 13:15	WG1229639
Xylenes, Total	U		0.00598	0.00813	1	01/29/2019 13:15	WG1229639
(S) Toluene-d8	112			75.0-131		01/29/2019 13:15	WG1229639
(S) Toluene-d8	99.0			75.0-131		01/30/2019 13:20	WG1229916
(S) Dibromofluoromethane	83.8			65.0-129		01/29/2019 13:15	WG1229639
(S) Dibromofluoromethane	111			65.0-129		01/30/2019 13:20	WG1229916
(S) 4-Bromofluorobenzene	106			67.0-138		01/29/2019 13:15	WG1229639
(S) 4-Bromofluorobenzene	115			67.0-138		01/30/2019 13:20	WG1229916

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/25/19 09:20

L1064712

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.2		1	01/28/2019 15:36	WG1229369

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0311	B JO	0.0152	0.0277	1	01/30/2019 13:39	WG1230028
Acrylonitrile	U		0.00211	0.0139	1	01/29/2019 15:57	WG1229639
Benzene	U		0.000444	0.00111	1	01/29/2019 15:57	WG1229639
Bromobenzene	U		0.00116	0.0139	1	01/29/2019 15:57	WG1229639
Bromodichloromethane	U		0.000874	0.00277	1	01/29/2019 15:57	WG1229639
Bromochloromethane	U		0.00125	0.00555	1	01/29/2019 15:57	WG1229639
Bromoform	U		0.00663	0.0277	1	01/29/2019 15:57	WG1229639
Bromomethane	U		0.00410	0.0139	1	01/29/2019 15:57	WG1229639
n-Butylbenzene	U		0.00426	0.0139	1	01/29/2019 15:57	WG1229639
sec-Butylbenzene	U		0.00281	0.0139	1	01/29/2019 15:57	WG1229639
tert-Butylbenzene	U		0.00172	0.00555	1	01/29/2019 15:57	WG1229639
Carbon disulfide	U		0.00450	0.0139	1	01/29/2019 15:57	WG1229639
Carbon tetrachloride	U		0.00120	0.00555	1	01/29/2019 15:57	WG1229639
Chlorobenzene	U		0.000635	0.00277	1	01/29/2019 15:57	WG1229639
Chlorodibromomethane	U		0.000499	0.00277	1	01/29/2019 15:57	WG1229639
Chloroethane	U		0.00120	0.00555	1	01/29/2019 15:57	WG1229639
Chloroform	U		0.000460	0.00277	1	01/29/2019 15:57	WG1229639
Chloromethane	U		0.00154	0.0139	1	01/29/2019 15:57	WG1229639
2-Chlorotoluene	U		0.00102	0.00277	1	01/29/2019 15:57	WG1229639
4-Chlorotoluene	U		0.00125	0.00555	1	01/29/2019 15:57	WG1229639
1,2-Dibromo-3-Chloropropane	U		0.00566	0.0277	1	01/29/2019 15:57	WG1229639
1,2-Dibromoethane	U		0.000582	0.00277	1	01/29/2019 15:57	WG1229639
Dibromomethane	U		0.00111	0.00555	1	01/29/2019 15:57	WG1229639
1,2-Dichlorobenzene	U		0.00161	0.00555	1	01/29/2019 15:57	WG1229639
1,3-Dichlorobenzene	U		0.00189	0.00555	1	01/29/2019 15:57	WG1229639
1,4-Dichlorobenzene	U		0.00218	0.00555	1	01/29/2019 15:57	WG1229639
Dichlorodifluoromethane	U		0.000907	0.00277	1	01/29/2019 15:57	WG1229639
1,1-Dichloroethane	U		0.000638	0.00277	1	01/29/2019 15:57	WG1229639
1,2-Dichloroethane	U		0.000527	0.00277	1	01/29/2019 15:57	WG1229639
1,1-Dichloroethene	U		0.000555	0.00277	1	01/29/2019 15:57	WG1229639
cis-1,2-Dichloroethene	0.00442		0.000765	0.00277	1	01/29/2019 15:57	WG1229639
trans-1,2-Dichloroethene	U		0.00159	0.00555	1	01/29/2019 15:57	WG1229639
1,2-Dichloropropane	U		0.00141	0.00555	1	01/30/2019 13:39	WG1230028
1,1-Dichloropropene	U		0.000776	0.00277	1	01/29/2019 15:57	WG1229639
1,3-Dichloropropane	U		0.00194	0.00555	1	01/29/2019 15:57	WG1229639
cis-1,3-Dichloropropene	U		0.000752	0.00277	1	01/29/2019 15:57	WG1229639
trans-1,3-Dichloropropene	U		0.00170	0.00555	1	01/29/2019 15:57	WG1229639
trans-1,4-Dichloro-2-butene	U		0.00155	0.00555	1	01/29/2019 15:57	WG1229639
2,2-Dichloropropane	U		0.000879	0.00277	1	01/29/2019 15:57	WG1229639
Di-isopropyl ether	U		0.000388	0.00111	1	01/29/2019 15:57	WG1229639
Ethylbenzene	U		0.000588	0.00277	1	01/29/2019 15:57	WG1229639
Hexachloro-1,3-butadiene	U		0.0141	0.0277	1	01/29/2019 15:57	WG1229639
2-Hexanone	U		0.0111	0.0277	1	01/29/2019 15:57	WG1229639
n-Hexane	U		0.00118	0.00555	1	01/29/2019 15:57	WG1229639
Iodomethane	U		0.00671	0.0139	1	01/29/2019 15:57	WG1229639
Isopropylbenzene	U		0.000957	0.00277	1	01/29/2019 15:57	WG1229639
p-Isopropyltoluene	U		0.00258	0.00555	1	01/29/2019 15:57	WG1229639
2-Butanone (MEK)	0.0328		0.0139	0.0277	1	01/30/2019 13:39	WG1230028
Methylene Chloride	U		0.00736	0.0277	1	01/29/2019 15:57	WG1229639
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0277	1	01/29/2019 15:57	WG1229639

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/25/19 09:20

L1064712

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000327	0.00111	1	01/29/2019 15:57	WG1229639
Naphthalene	U		0.00346	0.0139	1	01/29/2019 15:57	WG1229639
n-Propylbenzene	U		0.00131	0.00555	1	01/29/2019 15:57	WG1229639
Styrene	U		0.00303	0.0139	1	01/29/2019 15:57	WG1229639
1,1,1,2-Tetrachloroethane	U		0.000555	0.00277	1	01/29/2019 15:57	WG1229639
1,1,2,2-Tetrachloroethane	U		0.000433	0.00277	1	01/29/2019 15:57	WG1229639
1,1,2-Trichlorotrifluoroethane	U		0.000749	0.00277	1	01/29/2019 15:57	WG1229639
Tetrachloroethene	0.00369		0.000776	0.00277	1	01/29/2019 15:57	WG1229639
Toluene	0.00150	J	0.00139	0.00555	1	01/29/2019 15:57	WG1229639
1,2,3-Trichlorobenzene	U		0.000693	0.00277	1	01/29/2019 15:57	WG1229639
1,2,4-Trichlorobenzene	U		0.00535	0.0139	1	01/29/2019 15:57	WG1229639
1,1,1-Trichloroethane	U		0.000305	0.00277	1	01/29/2019 15:57	WG1229639
1,1,2-Trichloroethane	U		0.000979	0.00277	1	01/29/2019 15:57	WG1229639
Trichloroethene	U		0.000444	0.00111	1	01/29/2019 15:57	WG1229639
Trichlorofluoromethane	U		0.000555	0.00277	1	01/29/2019 15:57	WG1229639
1,2,3-Trichloropropane	U		0.00566	0.0139	1	01/29/2019 15:57	WG1229639
1,2,4-Trimethylbenzene	U		0.00129	0.00555	1	01/29/2019 15:57	WG1229639
1,2,3-Trimethylbenzene	U		0.00128	0.00555	1	01/29/2019 15:57	WG1229639
1,3,5-Trimethylbenzene	U		0.00120	0.00555	1	01/29/2019 15:57	WG1229639
Vinyl acetate	U		0.00390	0.0139	1	01/29/2019 15:57	WG1229639
Vinyl chloride	0.00428		0.000757	0.00277	1	01/29/2019 15:57	WG1229639
Xylenes, Total	U		0.00530	0.00721	1	01/29/2019 15:57	WG1229639
(S) Toluene-d8	114			75.0-131		01/29/2019 15:57	WG1229639
(S) Toluene-d8	97.5			75.0-131		01/30/2019 13:39	WG1230028
(S) Dibromofluoromethane	78.8			65.0-129		01/29/2019 15:57	WG1229639
(S) Dibromofluoromethane	111			65.0-129		01/30/2019 13:39	WG1230028
(S) 4-Bromofluorobenzene	105			67.0-138		01/29/2019 15:57	WG1229639
(S) 4-Bromofluorobenzene	117			67.0-138		01/30/2019 13:39	WG1230028

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	01/28/2019 15:36	WG1229369

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0374	B JO	0.0151	0.0276	1	01/30/2019 13:58	WG1230028
Acrylonitrile	U		0.00210	0.0138	1	01/29/2019 16:18	WG1229639
Benzene	U		0.000441	0.00110	1	01/29/2019 16:18	WG1229639
Bromobenzene	U		0.00116	0.0138	1	01/29/2019 16:18	WG1229639
Bromodichloromethane	U		0.000869	0.00276	1	01/29/2019 16:18	WG1229639
Bromochloromethane	U		0.00125	0.00551	1	01/29/2019 16:18	WG1229639
Bromoform	U		0.00659	0.0276	1	01/29/2019 16:18	WG1229639
Bromomethane	U		0.00408	0.0138	1	01/29/2019 16:18	WG1229639
n-Butylbenzene	U		0.00423	0.0138	1	01/29/2019 16:18	WG1229639
sec-Butylbenzene	U		0.00279	0.0138	1	01/29/2019 16:18	WG1229639
tert-Butylbenzene	U		0.00171	0.00551	1	01/29/2019 16:18	WG1229639
Carbon disulfide	U		0.00448	0.0138	1	01/29/2019 16:18	WG1229639
Carbon tetrachloride	U		0.00119	0.00551	1	01/29/2019 16:18	WG1229639
Chlorobenzene	U		0.000632	0.00276	1	01/29/2019 16:18	WG1229639
Chlorodibromomethane	U		0.000496	0.00276	1	01/29/2019 16:18	WG1229639
Chloroethane	U		0.00119	0.00551	1	01/29/2019 16:18	WG1229639
Chloroform	U		0.000458	0.00276	1	01/29/2019 16:18	WG1229639
Chloromethane	U		0.00153	0.0138	1	01/29/2019 16:18	WG1229639
2-Chlorotoluene	U		0.00101	0.00276	1	01/29/2019 16:18	WG1229639
4-Chlorotoluene	U		0.00125	0.00551	1	01/29/2019 16:18	WG1229639
1,2-Dibromo-3-Chloropropane	U		0.00562	0.0276	1	01/29/2019 16:18	WG1229639
1,2-Dibromoethane	U		0.000579	0.00276	1	01/29/2019 16:18	WG1229639
Dibromomethane	U		0.00110	0.00551	1	01/29/2019 16:18	WG1229639
1,2-Dichlorobenzene	U		0.00160	0.00551	1	01/29/2019 16:18	WG1229639
1,3-Dichlorobenzene	U		0.00187	0.00551	1	01/29/2019 16:18	WG1229639
1,4-Dichlorobenzene	U		0.00217	0.00551	1	01/29/2019 16:18	WG1229639
Dichlorodifluoromethane	U		0.000902	0.00276	1	01/29/2019 16:18	WG1229639
1,1-Dichloroethane	U		0.000634	0.00276	1	01/29/2019 16:18	WG1229639
1,2-Dichloroethane	U		0.000524	0.00276	1	01/29/2019 16:18	WG1229639
1,1-Dichloroethene	U		0.000551	0.00276	1	01/29/2019 16:18	WG1229639
cis-1,2-Dichloroethene	U		0.000761	0.00276	1	01/29/2019 16:18	WG1229639
trans-1,2-Dichloroethene	U		0.00158	0.00551	1	01/29/2019 16:18	WG1229639
1,2-Dichloropropane	U		0.00140	0.00551	1	01/30/2019 13:58	WG1230028
1,1-Dichloropropene	U		0.000772	0.00276	1	01/29/2019 16:18	WG1229639
1,3-Dichloropropane	U		0.00193	0.00551	1	01/29/2019 16:18	WG1229639
cis-1,3-Dichloropropene	U		0.000748	0.00276	1	01/29/2019 16:18	WG1229639
trans-1,3-Dichloropropene	U		0.00169	0.00551	1	01/29/2019 16:18	WG1229639
trans-1,4-Dichloro-2-butene	U		0.00154	0.00551	1	01/29/2019 16:18	WG1229639
2,2-Dichloropropane	U		0.000875	0.00276	1	01/29/2019 16:18	WG1229639
Di-isopropyl ether	U		0.000386	0.00110	1	01/29/2019 16:18	WG1229639
Ethylbenzene	U		0.000584	0.00276	1	01/29/2019 16:18	WG1229639
Hexachloro-1,3-butadiene	U		0.0140	0.0276	1	01/29/2019 16:18	WG1229639
2-Hexanone	U		0.0110	0.0276	1	01/29/2019 16:18	WG1229639
n-Hexane	U		0.00117	0.00551	1	01/29/2019 16:18	WG1229639
Iodomethane	U		0.00667	0.0138	1	01/29/2019 16:18	WG1229639
Isopropylbenzene	U		0.000952	0.00276	1	01/29/2019 16:18	WG1229639
p-Isopropyltoluene	U		0.00257	0.00551	1	01/29/2019 16:18	WG1229639
2-Butanone (MEK)	0.0322		0.0138	0.0276	1	01/30/2019 13:58	WG1230028
Methylene Chloride	U		0.00732	0.0276	1	01/29/2019 16:18	WG1229639
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0276	1	01/29/2019 16:18	WG1229639

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/25/19 09:10

L1064712

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000325	0.00110	1	01/29/2019 16:18	WG1229639
Naphthalene	U		0.00344	0.0138	1	01/29/2019 16:18	WG1229639
n-Propylbenzene	U		0.00130	0.00551	1	01/29/2019 16:18	WG1229639
Styrene	U		0.00301	0.0138	1	01/29/2019 16:18	WG1229639
1,1,1,2-Tetrachloroethane	U		0.000551	0.00276	1	01/29/2019 16:18	WG1229639
1,1,2,2-Tetrachloroethane	U		0.000430	0.00276	1	01/29/2019 16:18	WG1229639
1,1,2-Trichlorotrifluoroethane	U		0.000744	0.00276	1	01/29/2019 16:18	WG1229639
Tetrachloroethene	U		0.000772	0.00276	1	01/29/2019 16:18	WG1229639
Toluene	U		0.00138	0.00551	1	01/29/2019 16:18	WG1229639
1,2,3-Trichlorobenzene	U		0.000689	0.00276	1	01/29/2019 16:18	WG1229639
1,2,4-Trichlorobenzene	U		0.00532	0.0138	1	01/29/2019 16:18	WG1229639
1,1,1-Trichloroethane	U		0.000303	0.00276	1	01/29/2019 16:18	WG1229639
1,1,2-Trichloroethane	U		0.000974	0.00276	1	01/29/2019 16:18	WG1229639
Trichloroethene	U		0.000441	0.00110	1	01/29/2019 16:18	WG1229639
Trichlorofluoromethane	U		0.000551	0.00276	1	01/29/2019 16:18	WG1229639
1,2,3-Trichloropropane	U		0.00562	0.0138	1	01/29/2019 16:18	WG1229639
1,2,4-Trimethylbenzene	U		0.00128	0.00551	1	01/29/2019 16:18	WG1229639
1,2,3-Trimethylbenzene	U		0.00127	0.00551	1	01/29/2019 16:18	WG1229639
1,3,5-Trimethylbenzene	U		0.00119	0.00551	1	01/29/2019 16:18	WG1229639
Vinyl acetate	U		0.00388	0.0138	1	01/29/2019 16:18	WG1229639
Vinyl chloride	U		0.000753	0.00276	1	01/29/2019 16:18	WG1229639
Xylenes, Total	U		0.00527	0.00717	1	01/29/2019 16:18	WG1229639
(S) Toluene-d8	116			75.0-131		01/29/2019 16:18	WG1229639
(S) Toluene-d8	96.7			75.0-131		01/30/2019 13:58	WG1230028
(S) Dibromofluoromethane	79.1			65.0-129		01/29/2019 16:18	WG1229639
(S) Dibromofluoromethane	115			65.0-129		01/30/2019 13:58	WG1230028
(S) 4-Bromofluorobenzene	104			67.0-138		01/29/2019 16:18	WG1229639
(S) 4-Bromofluorobenzene	117			67.0-138		01/30/2019 13:58	WG1230028

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	
Acetone	U		1.05	25.0	1	01/28/2019 17:55	WG1229314
Acrylonitrile	U		0.873	5.00	1	01/28/2019 17:55	WG1229314
Benzene	U		0.0896	0.500	1	01/28/2019 17:55	WG1229314
Bromobenzene	U		0.133	0.500	1	01/28/2019 17:55	WG1229314
Bromodichloromethane	U		0.0800	0.500	1	01/28/2019 17:55	WG1229314
Bromochloromethane	U		0.145	0.500	1	01/28/2019 17:55	WG1229314
Bromoform	U		0.186	0.500	1	01/28/2019 17:55	WG1229314
Bromomethane	U		0.157	2.50	1	01/28/2019 17:55	WG1229314
n-Butylbenzene	U		0.143	0.500	1	01/28/2019 17:55	WG1229314
sec-Butylbenzene	U		0.134	0.500	1	01/28/2019 17:55	WG1229314
tert-Butylbenzene	U		0.183	0.500	1	01/28/2019 17:55	WG1229314
Carbon disulfide	U		0.101	0.500	1	01/28/2019 17:55	WG1229314
Carbon tetrachloride	U		0.159	0.500	1	01/28/2019 17:55	WG1229314
Chlorobenzene	U		0.140	0.500	1	01/28/2019 17:55	WG1229314
Chlorodibromomethane	U		0.128	0.500	1	01/28/2019 17:55	WG1229314
Chloroethane	U		0.141	2.50	1	01/28/2019 17:55	WG1229314
Chloroform	U		0.0860	0.500	1	01/28/2019 17:55	WG1229314
Chloromethane	U		0.153	1.25	1	01/28/2019 17:55	WG1229314
2-Chlorotoluene	U		0.111	0.500	1	01/28/2019 17:55	WG1229314
4-Chlorotoluene	U		0.0972	0.500	1	01/28/2019 17:55	WG1229314
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/28/2019 17:55	WG1229314
1,2-Dibromoethane	U		0.193	0.500	1	01/28/2019 17:55	WG1229314
Dibromomethane	U		0.117	0.500	1	01/28/2019 17:55	WG1229314
1,2-Dichlorobenzene	U		0.101	0.500	1	01/28/2019 17:55	WG1229314
1,3-Dichlorobenzene	U		0.130	0.500	1	01/28/2019 17:55	WG1229314
1,4-Dichlorobenzene	U		0.121	0.500	1	01/28/2019 17:55	WG1229314
Dichlorodifluoromethane	U		0.127	2.50	1	01/28/2019 17:55	WG1229314
1,1-Dichloroethane	U		0.114	0.500	1	01/28/2019 17:55	WG1229314
1,2-Dichloroethane	U		0.108	0.500	1	01/28/2019 17:55	WG1229314
1,1-Dichloroethene	U		0.188	0.500	1	01/28/2019 17:55	WG1229314
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/28/2019 17:55	WG1229314
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/28/2019 17:55	WG1229314
1,2-Dichloropropane	U		0.190	0.500	1	01/28/2019 17:55	WG1229314
1,1-Dichloropropene	U		0.128	0.500	1	01/28/2019 17:55	WG1229314
1,3-Dichloropropane	U		0.147	1.00	1	01/28/2019 17:55	WG1229314
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/28/2019 17:55	WG1229314
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/28/2019 17:55	WG1229314
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/28/2019 17:55	WG1229314
2,2-Dichloropropane	U		0.0929	0.500	1	01/28/2019 17:55	WG1229314
Di-isopropyl ether	U		0.0924	0.500	1	01/28/2019 17:55	WG1229314
Ethylbenzene	U		0.158	0.500	1	01/28/2019 17:55	WG1229314
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/28/2019 17:55	WG1229314
2-Hexanone	U		0.757	5.00	1	01/28/2019 17:55	WG1229314
n-Hexane	U		0.305	5.00	1	01/28/2019 17:55	WG1229314
Iodomethane	U		0.377	10.0	1	01/28/2019 17:55	WG1229314
Isopropylbenzene	U		0.126	0.500	1	01/28/2019 17:55	WG1229314
p-Isopropyltoluene	U		0.138	0.500	1	01/28/2019 17:55	WG1229314
2-Butanone (MEK)	U		1.28	5.00	1	01/28/2019 17:55	WG1229314
Methylene Chloride	U		1.07	2.50	1	01/28/2019 17:55	WG1229314
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/28/2019 17:55	WG1229314
Methyl tert-butyl ether	U		0.102	0.500	1	01/28/2019 17:55	WG1229314
Naphthalene	U		0.174	2.50	1	01/28/2019 17:55	WG1229314
n-Propylbenzene	U		0.162	0.500	1	01/28/2019 17:55	WG1229314
Styrene	U		0.117	0.500	1	01/28/2019 17:55	WG1229314
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/28/2019 17:55	WG1229314
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/28/2019 17:55	WG1229314

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	01/28/2019 17:55	WG1229314
Tetrachloroethene	U		0.199	0.500	1	01/28/2019 17:55	WG1229314
Toluene	U		0.412	0.500	1	01/28/2019 17:55	WG1229314
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/28/2019 17:55	WG1229314
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/28/2019 17:55	WG1229314
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/28/2019 17:55	WG1229314
1,1,2-Trichloroethane	U		0.186	0.500	1	01/28/2019 17:55	WG1229314
Trichloroethene	U		0.153	0.500	1	01/28/2019 17:55	WG1229314
Trichlorofluoromethane	U		0.130	2.50	1	01/28/2019 17:55	WG1229314
1,2,3-Trichloropropane	U		0.247	2.50	1	01/28/2019 17:55	WG1229314
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/28/2019 17:55	WG1229314
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/28/2019 17:55	WG1229314
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/28/2019 17:55	WG1229314
Vinyl acetate	U	JO	0.645	5.00	1	01/28/2019 18:57	WG1229419
Vinyl chloride	U		0.118	0.500	1	01/28/2019 17:55	WG1229314
Xylenes, Total	U		0.316	1.50	1	01/28/2019 17:55	WG1229314
(S) Toluene-d8	107			80.0-120		01/28/2019 17:55	WG1229314
(S) Toluene-d8	113			80.0-120		01/28/2019 18:57	WG1229419
(S) Dibromofluoromethane	97.9			75.0-120		01/28/2019 17:55	WG1229314
(S) Dibromofluoromethane	100			75.0-120		01/28/2019 18:57	WG1229419
(S) a,a,a-Trifluorotoluene	105			80.0-120		01/28/2019 17:55	WG1229314
(S) a,a,a-Trifluorotoluene	108			80.0-120		01/28/2019 18:57	WG1229419
(S) 4-Bromofluorobenzene	86.4			77.0-126		01/28/2019 17:55	WG1229314
(S) 4-Bromofluorobenzene	104			77.0-126		01/28/2019 18:57	WG1229419

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	89.0		1	01/28/2019 15:36	WG1229369

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0417	B JO	0.0154	0.0281	1	01/30/2019 14:17	WG1230028
Acrylonitrile	U		0.00213	0.0140	1	01/29/2019 16:38	WG1229639
Benzene	U		0.000449	0.00112	1	01/29/2019 16:38	WG1229639
Bromobenzene	U		0.00118	0.0140	1	01/29/2019 16:38	WG1229639
Bromodichloromethane	U		0.000885	0.00281	1	01/29/2019 16:38	WG1229639
Bromochloromethane	U		0.00127	0.00562	1	01/29/2019 16:38	WG1229639
Bromoform	U		0.00672	0.0281	1	01/29/2019 16:38	WG1229639
Bromomethane	U		0.00416	0.0140	1	01/29/2019 16:38	WG1229639
n-Butylbenzene	U		0.00431	0.0140	1	01/29/2019 16:38	WG1229639
sec-Butylbenzene	U		0.00284	0.0140	1	01/29/2019 16:38	WG1229639
tert-Butylbenzene	U		0.00174	0.00562	1	01/29/2019 16:38	WG1229639
Carbon disulfide	U		0.00456	0.0140	1	01/29/2019 16:38	WG1229639
Carbon tetrachloride	U		0.00121	0.00562	1	01/29/2019 16:38	WG1229639
Chlorobenzene	U		0.000644	0.00281	1	01/29/2019 16:38	WG1229639
Chlorodibromomethane	U		0.000506	0.00281	1	01/29/2019 16:38	WG1229639
Chloroethane	U		0.00121	0.00562	1	01/29/2019 16:38	WG1229639
Chloroform	U		0.000466	0.00281	1	01/29/2019 16:38	WG1229639
Chloromethane	U		0.00156	0.0140	1	01/29/2019 16:38	WG1229639
2-Chlorotoluene	U		0.00103	0.00281	1	01/29/2019 16:38	WG1229639
4-Chlorotoluene	U		0.00127	0.00562	1	01/29/2019 16:38	WG1229639
1,2-Dibromo-3-Chloropropane	U		0.00573	0.0281	1	01/29/2019 16:38	WG1229639
1,2-Dibromoethane	U		0.000590	0.00281	1	01/29/2019 16:38	WG1229639
Dibromomethane	U		0.00112	0.00562	1	01/29/2019 16:38	WG1229639
1,2-Dichlorobenzene	U		0.00163	0.00562	1	01/29/2019 16:38	WG1229639
1,3-Dichlorobenzene	U		0.00191	0.00562	1	01/29/2019 16:38	WG1229639
1,4-Dichlorobenzene	U		0.00221	0.00562	1	01/29/2019 16:38	WG1229639
Dichlorodifluoromethane	U		0.000919	0.00281	1	01/29/2019 16:38	WG1229639
1,1-Dichloroethane	U		0.000646	0.00281	1	01/29/2019 16:38	WG1229639
1,2-Dichloroethane	U		0.000534	0.00281	1	01/29/2019 16:38	WG1229639
1,1-Dichloroethene	U		0.000562	0.00281	1	01/29/2019 16:38	WG1229639
cis-1,2-Dichloroethene	0.00519		0.000775	0.00281	1	01/29/2019 16:38	WG1229639
trans-1,2-Dichloroethene	U		0.00161	0.00562	1	01/29/2019 16:38	WG1229639
1,2-Dichloropropane	U		0.00143	0.00562	1	01/30/2019 14:17	WG1230028
1,1-Dichloropropene	U		0.000786	0.00281	1	01/29/2019 16:38	WG1229639
1,3-Dichloropropane	U		0.00197	0.00562	1	01/29/2019 16:38	WG1229639
cis-1,3-Dichloropropene	U		0.000762	0.00281	1	01/29/2019 16:38	WG1229639
trans-1,3-Dichloropropene	U		0.00172	0.00562	1	01/29/2019 16:38	WG1229639
trans-1,4-Dichloro-2-butene	U		0.00157	0.00562	1	01/29/2019 16:38	WG1229639
2,2-Dichloropropane	U		0.000891	0.00281	1	01/29/2019 16:38	WG1229639
Di-isopropyl ether	U		0.000393	0.00112	1	01/29/2019 16:38	WG1229639
Ethylbenzene	U		0.000595	0.00281	1	01/29/2019 16:38	WG1229639
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	01/29/2019 16:38	WG1229639
2-Hexanone	U		0.0112	0.0281	1	01/29/2019 16:38	WG1229639
n-Hexane	U		0.00119	0.00562	1	01/29/2019 16:38	WG1229639
Iodomethane	U		0.00680	0.0140	1	01/29/2019 16:38	WG1229639
Isopropylbenzene	U		0.000970	0.00281	1	01/29/2019 16:38	WG1229639
p-Isopropyltoluene	U		0.00262	0.00562	1	01/29/2019 16:38	WG1229639
2-Butanone (MEK)	0.0290		0.0140	0.0281	1	01/30/2019 14:17	WG1230028
Methylene Chloride	U		0.00746	0.0281	1	01/29/2019 16:38	WG1229639
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	01/29/2019 16:38	WG1229639

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		0.000331	0.00112	1	01/29/2019 16:38	WG1229639
Naphthalene	U		0.00351	0.0140	1	01/29/2019 16:38	WG1229639
n-Propylbenzene	U		0.00133	0.00562	1	01/29/2019 16:38	WG1229639
Styrene	U		0.00307	0.0140	1	01/29/2019 16:38	WG1229639
1,1,1,2-Tetrachloroethane	U		0.000562	0.00281	1	01/29/2019 16:38	WG1229639
1,1,2,2-Tetrachloroethane	U		0.000438	0.00281	1	01/29/2019 16:38	WG1229639
1,1,2-Trichlorotrifluoroethane	U		0.000758	0.00281	1	01/29/2019 16:38	WG1229639
Tetrachloroethene	0.00468		0.000786	0.00281	1	01/29/2019 16:38	WG1229639
Toluene	0.00186	U	0.00140	0.00562	1	01/29/2019 16:38	WG1229639
1,2,3-Trichlorobenzene	U		0.000702	0.00281	1	01/29/2019 16:38	WG1229639
1,2,4-Trichlorobenzene	U		0.00542	0.0140	1	01/29/2019 16:38	WG1229639
1,1,1-Trichloroethane	U		0.000309	0.00281	1	01/29/2019 16:38	WG1229639
1,1,2-Trichloroethane	U		0.000992	0.00281	1	01/29/2019 16:38	WG1229639
Trichloroethene	U		0.000449	0.00112	1	01/29/2019 16:38	WG1229639
Trichlorofluoromethane	U		0.000562	0.00281	1	01/29/2019 16:38	WG1229639
1,2,3-Trichloropropane	U		0.00573	0.0140	1	01/29/2019 16:38	WG1229639
1,2,4-Trimethylbenzene	U		0.00130	0.00562	1	01/29/2019 16:38	WG1229639
1,2,3-Trimethylbenzene	U		0.00129	0.00562	1	01/29/2019 16:38	WG1229639
1,3,5-Trimethylbenzene	U		0.00121	0.00562	1	01/29/2019 16:38	WG1229639
Vinyl acetate	U		0.00395	0.0140	1	01/29/2019 16:38	WG1229639
Vinyl chloride	0.00368		0.000767	0.00281	1	01/29/2019 16:38	WG1229639
Xylenes, Total	U		0.00537	0.00730	1	01/29/2019 16:38	WG1229639
(S) Toluene-d8	112			75.0-131		01/29/2019 16:38	WG1229639
(S) Toluene-d8	95.8			75.0-131		01/30/2019 14:17	WG1230028
(S) Dibromofluoromethane	80.4			65.0-129		01/29/2019 16:38	WG1229639
(S) Dibromofluoromethane	114			65.0-129		01/30/2019 14:17	WG1230028
(S) 4-Bromofluorobenzene	103			67.0-138		01/29/2019 16:38	WG1229639
(S) 4-Bromofluorobenzene	118			67.0-138		01/30/2019 14:17	WG1230028

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

L1064712-01,02,03,04,05,06,07,09



(MB) R3379396-1 01/28/19 15:36

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

(OS) L1064712-07 01/28/19 15:36 • (DUP) R3379396-3 01/28/19 15:36

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	90.7	90.2	1	0.487		10

(LCS) R3379396-2 01/28/19 15:36

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Total Solids	50.0	50.0	100	85.0-115	

 ${}^9\text{Sc}$

PES Environmental, Inc.- WA

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L1064712

01/30/19 15:57

24 of 41



Method Blank (MB)

(MB) R3379214-4 01/28/19 11:21

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
Carbon disulfide	U		0.101	0.500
n-Butylbenzene	U		0.143	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-1,4-Dichloro-2-butene	U		0.257	5.00
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
2-Hexanone	U		0.757	5.00
cis-1,3-Dichloropropene	U		0.0976	0.500
n-Hexane	U		0.305	5.00
trans-1,3-Dichloropropene	U		0.222	0.500

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3379214-4 01/28/19 11:21

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
2,2-Dichloropropane	U		0.0929	0.500
Iodomethane	U		0.377	10.0
Di-isopropyl ether	U		0.0924	0.500
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
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	107			80.0-120
(S) Dibromofluoromethane	98.1			75.0-120
(S) a,a,a-Trifluorotoluene	104			80.0-120
(S) 4-Bromofluorobenzene	88.2			77.0-126

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



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

(LCS) R3379214-1 01/28/19 09:43 • (LCSD) R3379214-3 01/28/19 10:22

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromochloromethane	25.0	26.2	25.8	105	103	76.0-122			1.40	20
Carbon disulfide	25.0	23.3	22.2	93.0	88.7	61.0-128			4.80	20
trans-1,4-Dichloro-2-butene	25.0	21.9	20.8	87.7	83.0	33.0-144			5.42	20
2-Hexanone	125	129	122	103	97.3	67.0-149			5.89	20
n-Hexane	25.0	22.8	22.6	91.4	90.3	57.0-133			1.19	20
Iodomethane	125	124	123	99.1	98.0	33.0-147			1.07	26
Acetone	125	109	105	87.6	84.2	19.0-160			3.98	27
Acrylonitrile	125	125	116	100	92.6	55.0-149			7.97	20
Benzene	25.0	23.7	23.2	94.9	93.0	70.0-123			2.09	20
Bromobenzene	25.0	21.6	21.9	86.3	87.5	73.0-121			1.33	20
Bromodichloromethane	25.0	27.2	26.3	109	105	75.0-120			3.31	20
Bromoform	25.0	24.3	23.5	97.1	94.1	68.0-132			3.12	20
Bromomethane	25.0	25.5	23.9	102	95.7	10.0-160			6.35	25
n-Butylbenzene	25.0	25.5	25.8	102	103	73.0-125			1.04	20
sec-Butylbenzene	25.0	25.8	26.4	103	105	75.0-125			2.18	20
tert-Butylbenzene	25.0	26.1	27.2	104	109	76.0-124			3.94	20
Carbon tetrachloride	25.0	23.3	22.7	93.2	90.6	68.0-126			2.74	20
Chlorobenzene	25.0	27.5	26.8	110	107	80.0-121			2.66	20
Chlorodibromomethane	25.0	26.4	25.6	105	102	77.0-125			3.09	20
Chloroethane	25.0	24.4	22.6	97.6	90.3	47.0-150			7.80	20
Chloroform	25.0	24.3	23.3	97.0	93.3	73.0-120			3.96	20
Chloromethane	25.0	26.3	25.0	105	100	41.0-142			4.96	20
2-Chlorotoluene	25.0	23.6	24.2	94.4	96.8	76.0-123			2.53	20
4-Chlorotoluene	25.0	24.5	25.3	98.1	101	75.0-122			2.91	20
1,2-Dibromo-3-Chloropropane	25.0	24.0	22.8	96.0	91.2	58.0-134			5.14	20
1,2-Dibromoethane	25.0	26.8	25.8	107	103	80.0-122			3.70	20
Dibromomethane	25.0	27.0	25.7	108	103	80.0-120			5.18	20
1,2-Dichlorobenzene	25.0	27.2	27.2	109	109	79.0-121			0.0898	20
1,3-Dichlorobenzene	25.0	26.9	27.3	107	109	79.0-120			1.46	20
1,4-Dichlorobenzene	25.0	25.0	25.4	100	102	79.0-120			1.67	20
Dichlorodifluoromethane	25.0	24.5	23.2	98.0	92.9	51.0-149			5.37	20
1,1-Dichloroethane	25.0	25.8	25.2	103	101	70.0-126			2.51	20
1,2-Dichloroethane	25.0	26.5	25.5	106	102	70.0-128			3.90	20
1,1-Dichloroethene	25.0	23.9	23.4	95.8	93.4	71.0-124			2.48	20
cis-1,2-Dichloroethene	25.0	25.9	25.0	104	99.8	73.0-120			3.62	20
trans-1,2-Dichloroethene	25.0	25.3	23.7	101	94.8	73.0-120			6.63	20
1,2-Dichloropropane	25.0	27.3	27.3	109	109	77.0-125			0.0996	20
1,1-Dichloropropene	25.0	23.0	23.1	92.0	92.3	74.0-126			0.309	20
1,3-Dichloropropane	25.0	27.1	26.4	108	105	80.0-120			2.64	20
cis-1,3-Dichloropropene	25.0	26.0	26.0	104	104	80.0-123			0.0888	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



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

(LCS) R3379214-1 01/28/19 09:43 • (LCSD) R3379214-3 01/28/19 10:22

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
trans-1,3-Dichloropropene	25.0	27.3	27.1	109	108	78.0-124			0.972	20
2,2-Dichloropropane	25.0	24.8	25.3	99.3	101	58.0-130			2.05	20
Di-isopropyl ether	25.0	27.6	27.0	110	108	58.0-138			2.09	20
Ethylbenzene	25.0	25.6	25.4	102	102	79.0-123			0.583	20
Hexachloro-1,3-butadiene	25.0	23.3	23.9	93.2	95.7	54.0-138			2.65	20
Isopropylbenzene	25.0	23.3	23.9	93.0	95.7	76.0-127			2.82	20
p-Isopropyltoluene	25.0	26.3	26.6	105	107	76.0-125			1.48	20
2-Butanone (MEK)	125	113	108	90.7	86.1	44.0-160			5.19	20
Methylene Chloride	25.0	24.2	23.1	97.0	92.6	67.0-120			4.64	20
4-Methyl-2-pentanone (MIBK)	125	128	121	102	96.8	68.0-142			5.41	20
Methyl tert-butyl ether	25.0	25.7	25.1	103	100	68.0-125			2.56	20
Naphthalene	25.0	20.7	23.3	82.8	93.1	54.0-135			11.8	20
n-Propylbenzene	25.0	22.5	23.9	90.2	95.7	77.0-124			5.93	20
Styrene	25.0	24.3	25.5	97.2	102	73.0-130			5.00	20
1,1,1,2-Tetrachloroethane	25.0	28.6	28.6	114	115	75.0-125			0.194	20
1,1,2,2-Tetrachloroethane	25.0	20.0	19.8	79.8	79.3	65.0-130			0.733	20
Tetrachloroethene	25.0	27.0	26.9	108	108	72.0-132			0.123	20
Toluene	25.0	26.1	26.2	104	105	79.0-120			0.185	20
1,1,2-Trichlorotrifluoroethane	25.0	24.2	23.0	96.9	91.9	69.0-132			5.35	20
1,2,3-Trichlorobenzene	25.0	21.4	21.2	85.6	84.8	50.0-138			0.954	20
1,2,4-Trichlorobenzene	25.0	24.0	24.3	96.1	97.3	57.0-137			1.23	20
1,1,1-Trichloroethane	25.0	26.0	25.0	104	100	73.0-124			3.89	20
1,1,2-Trichloroethane	25.0	26.3	25.9	105	103	80.0-120			1.76	20
Trichloroethene	25.0	28.4	27.5	114	110	78.0-124			3.01	20
Trichlorofluoromethane	25.0	24.3	23.0	97.2	92.2	59.0-147			5.29	20
1,2,3-Trichloropropane	25.0	23.8	23.7	95.3	94.9	73.0-130			0.419	20
1,2,3-Trimethylbenzene	25.0	20.1	20.3	80.6	81.3	77.0-120			0.928	20
1,2,4-Trimethylbenzene	25.0	25.8	27.0	103	108	76.0-121			4.22	20
1,3,5-Trimethylbenzene	25.0	23.7	24.7	94.8	98.7	76.0-122			4.00	20
Vinyl chloride	25.0	24.8	23.0	99.2	91.8	67.0-131			7.76	20
Xylenes, Total	75.0	81.1	81.1	108	108	79.0-123			0.000	20
(S) Toluene-d8				102	102	80.0-120				
(S) Dibromofluoromethane				97.3	96.2	75.0-120				
(S) a,a,a-Trifluorotoluene				106	104	80.0-120				
(S) 4-Bromofluorobenzene				85.5	86.2	77.0-126				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3379278-2 01/28/19 12:08

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Vinyl acetate	U		0.645	5.00
(S) Toluene-d8	113			80.0-120
(S) Dibromofluoromethane	100			75.0-120
(S) a,a,a-Trifluorotoluene	109			80.0-120
(S) 4-Bromofluorobenzene	106			77.0-126

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

Laboratory Control Sample (LCS)

(LCS) R3379278-1 01/28/19 10:50

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Vinyl acetate	125	149	119	11.0-160	
(S) Toluene-d8			112	80.0-120	
(S) Dibromofluoromethane			98.7	75.0-120	
(S) a,a,a-Trifluorotoluene			108	80.0-120	
(S) 4-Bromofluorobenzene			105	77.0-126	

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3379554-2 01/29/19 10:27

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3379554-2 01/29/19 10:27

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
n-Hexane	U		0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
Methylene Chloride	0.0117	U	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	114			75.0-131
(S) Dibromofluoromethane	76.6			65.0-129
(S) 4-Bromofluorobenzene	104			67.0-138

1

Cp

2

Tc

3

Ss

4

Cn

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Sr

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Qc

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Gl

8

Al

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Sc

[L1064712-01,02,03,04,05,06,07,09](#)

Laboratory Control Sample (LCS)

(LCS) R3379554-1 01/29/19 09:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acrylonitrile	0.625	0.539	86.2	45.0-153	
Benzene	0.125	0.108	86.5	70.0-123	
Bromobenzene	0.125	0.119	95.0	73.0-121	
Bromodichloromethane	0.125	0.0992	79.3	73.0-121	
Bromochloromethane	0.125	0.127	101	77.0-128	
Bromoform	0.125	0.125	99.8	64.0-132	
Bromomethane	0.125	0.130	104	56.0-147	
n-Butylbenzene	0.125	0.121	96.5	68.0-135	
sec-Butylbenzene	0.125	0.116	92.5	74.0-130	
tert-Butylbenzene	0.125	0.104	83.5	75.0-127	
Carbon disulfide	0.125	0.105	83.9	56.0-133	
Carbon tetrachloride	0.125	0.117	93.4	66.0-128	
Chlorobenzene	0.125	0.120	95.8	76.0-128	
Chlorodibromomethane	0.125	0.154	123	74.0-127	
Chloroethane	0.125	0.112	89.3	61.0-134	
Chloroform	0.125	0.0961	76.9	72.0-123	
Chloromethane	0.125	0.104	82.9	51.0-138	
2-Chlorotoluene	0.125	0.140	112	75.0-124	
4-Chlorotoluene	0.125	0.103	82.2	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.153	122	59.0-130	
1,2-Dibromoethane	0.125	0.124	99.4	74.0-128	
Dibromomethane	0.125	0.151	121	75.0-122	
1,2-Dichlorobenzene	0.125	0.130	104	76.0-124	
1,3-Dichlorobenzene	0.125	0.120	96.3	76.0-125	
1,4-Dichlorobenzene	0.125	0.118	94.6	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.107	85.9	45.0-143	
Dichlorodifluoromethane	0.125	0.136	109	43.0-156	
1,1-Dichloroethane	0.125	0.137	109	70.0-127	
1,2-Dichloroethane	0.125	0.136	109	65.0-131	
1,1-Dichloroethene	0.125	0.130	104	65.0-131	
cis-1,2-Dichloroethene	0.125	0.0993	79.4	73.0-125	
trans-1,2-Dichloroethene	0.125	0.120	95.8	71.0-125	
1,1-Dichloropropene	0.125	0.101	81.1	73.0-125	
1,3-Dichloropropane	0.125	0.132	106	80.0-125	
cis-1,3-Dichloropropene	0.125	0.105	84.1	76.0-127	
trans-1,3-Dichloropropene	0.125	0.124	99.6	73.0-127	
2,2-Dichloropropane	0.125	0.131	105	59.0-135	
Di-isopropyl ether	0.125	0.103	82.3	60.0-136	
Ethylbenzene	0.125	0.126	100	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.0978	78.3	57.0-150	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3379554-1 01/29/19 09:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
2-Hexanone	0.625	0.747	119	54.0-147	
n-Hexane	0.125	0.124	99.1	55.0-137	
Iodomethane	0.625	0.535	85.7	74.0-134	
Isopropylbenzene	0.125	0.126	101	72.0-127	
p-Isopropyltoluene	0.125	0.123	98.5	72.0-133	
Methylene Chloride	0.125	0.100	80.3	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.741	119	56.0-143	
Methyl tert-butyl ether	0.125	0.109	87.3	66.0-132	
Naphthalene	0.125	0.110	87.8	59.0-130	
n-Propylbenzene	0.125	0.105	84.2	74.0-126	
Styrene	0.125	0.125	100	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.133	107	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.101	80.4	68.0-128	
Tetrachloroethene	0.125	0.164	131	70.0-136	
Toluene	0.125	0.123	98.3	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.127	102	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.131	105	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.110	87.8	62.0-137	
1,1,1-Trichloroethane	0.125	0.124	99.1	69.0-126	
1,1,2-Trichloroethane	0.125	0.125	100	78.0-123	
Trichloroethene	0.125	0.120	95.7	76.0-126	
Trichlorofluoromethane	0.125	0.118	94.6	61.0-142	
1,2,3-Trichloropropane	0.125	0.156	125	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.106	84.5	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.0991	79.3	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.110	88.2	73.0-127	
Vinyl acetate	0.625	0.323	51.8	43.0-159	
Vinyl chloride	0.125	0.106	85.0	63.0-134	
Xylenes, Total	0.375	0.388	103	72.0-127	
(S) Toluene-d8			109	75.0-131	
(S) Dibromofluoromethane			90.7	65.0-129	
(S) 4-Bromofluorobenzene			105	67.0-138	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1064522-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1064522-02 01/29/19 18:19 • (MS) R3379554-3 01/29/19 18:40 • (MSD) R3379554-4 01/29/19 19:00

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 %
Acrylonitrile	0.625	U	0.352	0.368	56.4	59.0	1	10.0-160			4.50	40
Benzene	0.125	U	0.0407	0.0659	32.5	52.7	1	10.0-149		J3	47.4	37
Bromobenzene	0.125	U	0.0812	0.116	65.0	92.4	1	10.0-156			34.9	38
Bromodichloromethane	0.125	U	0.0625	0.0901	50.0	72.1	1	10.0-143			36.1	37
Bromoform	0.125	U	0.0967	0.113	77.4	90.4	1	10.0-146			15.5	36
Bromochloromethane	0.125	U	0.0568	0.0806	45.5	64.5	1	10.0-155		J3	34.5	33
Bromomethane	0.125	U	0.0144	0.0219	11.6	17.5	1	10.0-149		J3	41.0	38
n-Butylbenzene	0.125	U	0.0784	0.129	62.7	103	1	10.0-160		J3	48.7	40
sec-Butylbenzene	0.125	U	0.0724	0.117	57.9	94.0	1	10.0-159		J3	47.5	39
tert-Butylbenzene	0.125	U	0.0677	0.107	54.1	85.3	1	10.0-156		J3	44.7	39
Carbon tetrachloride	0.125	U	0.0353	0.0625	28.3	50.0	1	10.0-145		J3	55.6	37
Carbon disulfide	0.125	U	0.00743	0.00697	5.94	5.57	1	10.0-145	J6	J6	6.41	39
Chlorobenzene	0.125	U	0.0698	0.106	55.8	84.5	1	10.0-152		J3	40.9	39
Chlorodibromomethane	0.125	U	0.117	0.141	93.5	113	1	10.0-146			18.8	37
Chloroethane	0.125	U	0.0182	0.0242	14.6	19.4	1	10.0-146			28.3	40
Chloroform	0.125	U	0.0476	0.0764	38.1	61.1	1	10.0-146		J3	46.4	37
Chloromethane	0.125	U	0.0164	0.0300	13.1	24.0	1	10.0-159		J3	58.5	37
2-Chlorotoluene	0.125	U	0.0897	0.134	71.7	107	1	10.0-159		J3	39.8	38
4-Chlorotoluene	0.125	U	0.0695	0.100	55.6	80.1	1	10.0-155			36.2	39
1,2-Dibromo-3-Chloropropane	0.125	U	0.131	0.130	104	104	1	10.0-151			0.315	39
1,2-Dibromoethane	0.125	U	0.0870	0.103	69.6	82.1	1	10.0-148			16.4	34
Dibromomethane	0.125	U	0.0897	0.0989	71.8	79.1	1	10.0-147			9.71	35
1,2-Dichlorobenzene	0.125	U	0.100	0.135	80.3	108	1	10.0-155			29.3	37
1,3-Dichlorobenzene	0.125	U	0.0867	0.128	69.4	103	1	10.0-153		J3	38.6	38
1,4-Dichlorobenzene	0.125	U	0.0881	0.124	70.5	98.8	1	10.0-151			33.5	38
Dichlorodifluoromethane	0.125	U	0.0410	0.0700	32.8	56.0	1	10.0-160		J3	52.2	35
trans-1,4-Dichloro-2-butene	0.125	U	0.107	0.107	85.8	85.2	1	10.0-152			0.689	36
1,1-Dichloroethane	0.125	U	0.0579	0.0958	46.3	76.7	1	10.0-147		J3	49.3	37
1,2-Dichloroethane	0.125	U	0.0699	0.0911	55.9	72.9	1	10.0-148			26.3	35
1,1-Dichloroethene	0.125	U	0.0240	0.0332	19.2	26.5	1	10.0-155			31.9	37
cis-1,2-Dichloroethene	0.125	U	0.0403	0.0653	32.3	52.2	1	10.0-149		J3	47.2	37
trans-1,2-Dichloroethene	0.125	U	0.0237	0.0396	18.9	31.7	1	10.0-150		J3	50.4	37
1,1-Dichloropropene	0.125	U	0.0275	0.0506	22.0	40.5	1	10.0-153		J3	59.1	35
1,3-Dichloropropane	0.125	U	0.0979	0.118	78.3	94.6	1	10.0-154			18.9	35
cis-1,3-Dichloropropene	0.125	U	0.0631	0.0858	50.5	68.7	1	10.0-151			30.5	37
trans-1,3-Dichloropropene	0.125	U	0.0826	0.114	66.1	91.5	1	10.0-148			32.2	37
2,2-Dichloropropane	0.125	U	0.0431	0.0761	34.5	60.9	1	10.0-138		J3	55.3	36
Di-isopropyl ether	0.125	U	0.0608	0.0837	48.6	66.9	1	10.0-147			31.7	36
Ethylbenzene	0.125	U	0.0652	0.106	52.1	85.2	1	10.0-160		J3	48.1	38
Hexachloro-1,3-butadiene	0.125	U	0.0726	0.103	58.1	82.3	1	10.0-160			34.6	40

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1064522-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1064522-02 01/29/19 18:19 • (MS) R3379554-3 01/29/19 18:40 • (MSD) R3379554-4 01/29/19 19:00

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 %
2-Hexanone	0.625	U	0.664	0.654	106	105	1	10.0-160			1.47	36
Isopropylbenzene	0.125	U	0.0714	0.118	57.1	94.8	1	10.0-155		J3	49.5	38
n-Hexane	0.125	U	0.0720	0.0888	57.6	71.0	1	10.0-157			20.8	37
Iodomethane	0.625	U	0.118	0.196	18.9	31.4	1	10.0-160		J3	49.8	38
p-Isopropyltoluene	0.125	U	0.0775	0.127	62.0	102	1	10.0-160		J3	48.6	40
Methylene Chloride	0.125	0.0178	0.0627	0.0806	36.0	50.3	1	10.0-141			24.9	37
4-Methyl-2-pentanone (MIBK)	0.625	U	0.631	0.641	101	103	1	10.0-160			1.57	35
Methyl tert-butyl ether	0.125	U	0.0680	0.0845	54.4	67.6	1	11.0-147			21.6	35
Naphthalene	0.125	U	0.0997	0.113	79.7	90.1	1	10.0-160			12.2	36
n-Propylbenzene	0.125	U	0.0622	0.104	49.8	83.0	1	10.0-158		J3	50.1	38
Styrene	0.125	U	0.0801	0.119	64.1	95.5	1	10.0-160			39.4	40
1,1,1,2-Tetrachloroethane	0.125	U	0.0926	0.130	74.1	104	1	10.0-149			33.3	39
1,1,2,2-Tetrachloroethane	0.125	U	0.0910	0.0995	72.8	79.6	1	10.0-160			8.89	35
Tetrachloroethene	0.125	U	0.0627	0.104	50.2	83.5	1	10.0-156		J3	49.9	39
Toluene	0.125	U	0.0547	0.0863	43.8	69.1	1	10.0-156		J3	44.8	38
1,1,2-Trichlorotrifluoroethane	0.125	U	0.0251	0.0491	20.1	39.3	1	10.0-160		J3	64.9	36
1,2,3-Trichlorobenzene	0.125	U	0.114	0.146	91.0	117	1	10.0-160			24.8	40
1,2,4-Trichlorobenzene	0.125	U	0.0962	0.125	77.0	100	1	10.0-160			26.0	40
1,1,1-Trichloroethane	0.125	U	0.0413	0.0749	33.0	59.9	1	10.0-144		J3	57.9	35
1,1,2-Trichloroethane	0.125	U	0.0980	0.121	78.4	96.5	1	10.0-160			20.7	35
Trichloroethene	0.125	U	0.0432	0.0736	34.5	58.9	1	10.0-156		J3	52.1	38
Trichlorofluoromethane	0.125	U	ND	0.0217	0.000	17.4	1	10.0-160	J6	J3	200	40
1,2,3-Trichloropropane	0.125	U	0.132	0.144	105	116	1	10.0-156			9.24	35
1,2,3-Trimethylbenzene	0.125	U	0.0726	0.104	58.1	83.1	1	10.0-160			35.3	36
1,2,4-Trimethylbenzene	0.125	U	0.0642	0.0972	51.3	77.8	1	10.0-160		J3	41.0	36
1,3,5-Trimethylbenzene	0.125	U	0.0659	0.106	52.7	84.6	1	10.0-160		J3	46.4	38
Vinyl chloride	0.125	U	0.0199	0.0323	15.9	25.8	1	10.0-160		J3	47.3	37
Vinyl acetate	0.625	U	0.163	0.139	26.1	22.3	1	10.0-128			16.0	40
Xylenes, Total	0.375	U	0.211	0.325	56.2	86.7	1	10.0-160		J3	42.6	38
(S) Toluene-d8					112	111	75.0-131					
(S) Dibromofluoromethane					84.5	84.1	65.0-129					
(S) 4-Bromofluorobenzene					104	103	67.0-138					

1

Cp

2

Tc

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Ss

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Cn

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Sr

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Qc

7

Gl

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Al

9

Sc

Method Blank (MB)

(MB) R3379897-3 01/30/19 10:11

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	0.0242	⬇	0.0137	0.0250
1,2-Dichloropropane	U		0.00127	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
(S) Toluene-d8	101			75.0-131
(S) Dibromofluoromethane	105			65.0-129
(S) 4-Bromofluorobenzene	115			67.0-138

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

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

(LCS) R3379897-1 01/30/19 08:55 • (LCSD) R3379897-2 01/30/19 09:14

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	0.625	0.484	0.485	77.5	77.6	10.0-160			0.221	31
1,2-Dichloropropane	0.125	0.146	0.146	117	117	74.0-125			0.193	20
2-Butanone (MEK)	0.625	0.629	0.564	101	90.3	30.0-160			10.9	24
(S) Toluene-d8				99.7	99.3	75.0-131				
(S) Dibromofluoromethane				108	104	65.0-129				
(S) 4-Bromofluorobenzene				113	116	67.0-138				

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3379950-3 01/30/19 10:11

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	0.0242	⬇	0.0137	0.0250
1,2-Dichloropropane	U		0.00127	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
(S) Toluene-d8	101			75.0-131
(S) Dibromofluoromethane	105			65.0-129
(S) 4-Bromofluorobenzene	115			67.0-138

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

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

(LCS) R3379950-1 01/30/19 08:55 • (LCSD) R3379950-2 01/30/19 09:14

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	0.625	0.484	0.485	77.5	77.6	10.0-160			0.221	31
1,2-Dichloropropane	0.125	0.146	0.146	117	117	74.0-125			0.193	20
2-Butanone (MEK)	0.625	0.629	0.564	101	90.3	30.0-160			10.9	24
(S) Toluene-d8				99.7	99.3	75.0-131				
(S) Dibromofluoromethane				108	104	65.0-129				
(S) 4-Bromofluorobenzene				113	116	67.0-138				

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.
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, the sample preparation volume or weight values differ from the standard, 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.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
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: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
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.

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



Pace National 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.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

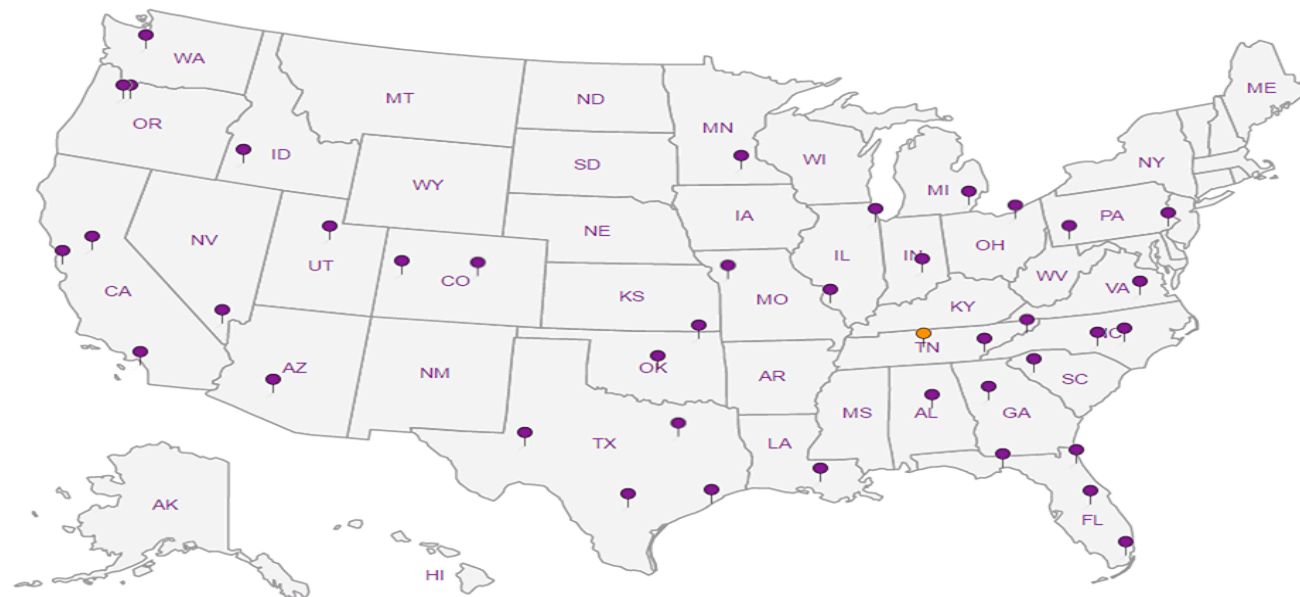
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National 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. Pace National 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



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



L# 1064712

Table #

Account: PESENVSWA

Template: T144906

Prelogin: P689591

TSR: 110 - Brian Ford

PB:

Shipped Via:

Remarks

Sample # (lab only)

HOLD

HOLD

01

02

03

04

05

06

07

08

Report to:
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;
bhaldeman@pesenv.com;

Project
Description: American Linen

City/State
Collected: SEATTLE WA

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

Client Project #
1413.001.05.501
02.501

Lab Project #
PESENVSWA-ALP

Collected by (print):
R. McLAUGHLIN

Site/Facility ID #

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Same Day Five Day
Next Day 5 Day (Rad Only)
Two Day 10 Day (Rad Only)
Three Day

Date Results Needed

No
of
Cntrs

Packed on Ice N ☒ Y

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

MW-164-47

GRAB

SS

47

1/24/19

1515

2

MW-164-50

SS

50

1520

MW-164-80

SS

80

1615

X

X

MW-164-87

SS

87

1618

MW-164-90

SS

90

1620

MW-164-95

SS

95

1/25/19

0915

MW-164-100

SS

100

0930

MW-164-105

SS

105

0920

MW-164-110

X

SS

110

0910

X

X

X

MW-TB-012518

—

SS

—

1-25-19

1230

1

X

* Matrix:

SS - Soil AIR - Air F - Filter

GW - Groundwater B - Bioassay

WW - WasteWater

DW - Drinking Water

OT - Other

Remarks:

Samples returned via:

UPS FedEx Courier

Tracking #

468664704964

pH Temp

Flow Other

Sample Receipt Checklist

CDC Seal Present/Intact: ☒ Y ☐ N

ODC Signed/Accurate: ☒ Y ☐ N

Bottles arrive intact: ☒ Y ☐ N

Correct bottles used: ☒ Y ☐ N

Sufficient volume sent: ☒ Y ☐ N

VDA Zero Readspace: ☒ Y ☐ N

Preservation Correct/Checked: ☒ Y ☐ N

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: ☒ Yes ☐ No

100% MeOH

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

01-0160

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:
Brian O'Neal/Bill Haldeman

Project
Description: American Linen

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

Email To: boneal@pesenv.com;
bhaldeman@pesenv.com;

City/State
Collected: SEATTLE WA

Lab Project #
PESENVSWA-ALP

P.O. #

Quote #

Date Results Needed

Client Project #

1413.001.05.501

02.501

Site/Facility ID #

Rush? (Lab MUST Be Notified)

Same Day Five Day
Next Day 5 Day (Rad Only)
☒ Two Day 10 Day (Rad Only)
Three Day

Collected by (print):

R. McLAUGHLIN

Collected by (signature):

RTM Lauglin

Immediately
Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

No.
of
Cntrs

B-929-110

GRAB

SS

120

1-25-19

1000

2

X

X

VOCs 8260C 40ml Amb/MeOH5ml/Syr

dry weight 2oz Clr-NoPres

trip blk VOC 8260LLC 40ml Amb-HCl-Blk

Analysis / Container / Preservative

Chain of Custody

Page 2 of 2



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



L# 104712

Table #

Acctnum: PESENVSWA

Template: T144906

Prelogin: P689591

TSR: 110 - Brian Ford

PB:

Shipped Via:

Remarks

Sample # (lab only)

09

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

Remarks:

Samples returned via:

UPS FedEx Courier

Tracking #

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

pH Temp

Flow Other

Trip Blank Received: ☒ / No

MeOH/MeOH

TBR

Temp $^{\circ}\text{C}$ Bottles Received:

5.55-5.5 70

Date: 11/28/19 Time: 10:00

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
VQA Zero Headspace: ☒ Y ☐ N
Preservation Correct/Checked: ☒ Y ☐ N

If preservation required by Login: Date/Time

Hold:

Condition

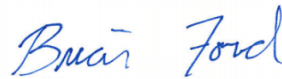
NCF / (OK)

February 05, 2019

PES Environmental, Inc.- WA

Sample Delivery Group: L1064837
Samples Received: 01/29/2019
Project Number: 1413.001.05.305
Description: American Linen
Site: AMERICAN LINEN
Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford
Project Manager

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 Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Sr: Sample Results	6
MW-142-012819 L1064837-01	6
MW-906-012819 L1064837-02	9
MW-144-012819 L1064837-03	12
MW-139-012819 L1064837-04	15
MW-134-012819 L1064837-05	17
TB-012819 L1064837-06	19
Qc: Quality Control Summary	21
Wet Chemistry by Method 2320 B-2011	21
Wet Chemistry by Method 9056A	22
Wet Chemistry by Method 9060A	24
Metals (ICPMS) by Method 6020B	25
Volatile Organic Compounds (GC) by Method NWTPHGX	26
Volatile Organic Compounds (GC) by Method RSK175	27
Volatile Organic Compounds (GC/MS) by Method 8260C	29
Gl: Glossary of Terms	33
Al: Accreditations & Locations	34
Sc: Sample Chain of Custody	35



SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-142-012819 L1064837-01 GW

			Collected by KZ/RM	Collected date/time 01/28/19 10:50	Received date/time 01/29/19 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1230371	1	01/31/19 16:36	01/31/19 16:36	GB
Wet Chemistry by Method 9056A	WG1229612	1	01/29/19 15:02	01/29/19 15:02	ST
Wet Chemistry by Method 9060A	WG1229541	1	01/29/19 13:16	01/29/19 13:16	EEM
Metals (ICPMS) by Method 6020B	WG1230036	1	01/30/19 08:59	01/30/19 13:36	JPD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1230033	1	01/30/19 06:52	01/30/19 06:52	DWR
Volatile Organic Compounds (GC) by Method RSK175	WG1230299	1	01/31/19 13:29	01/31/19 13:29	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229700	1	01/29/19 17:20	01/29/19 17:20	DWR

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

MW-906-012819 L1064837-02 GW

			Collected by KZ/RM	Collected date/time 01/28/19 12:00	Received date/time 01/29/19 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1230371	1	01/31/19 16:43	01/31/19 16:43	GB
Wet Chemistry by Method 9056A	WG1229612	1	01/29/19 15:33	01/29/19 15:33	ST
Wet Chemistry by Method 9060A	WG1229541	1	01/29/19 13:37	01/29/19 13:37	EEM
Metals (ICPMS) by Method 6020B	WG1230036	1	01/30/19 08:59	01/30/19 13:41	JPD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1230033	1	01/30/19 07:15	01/30/19 07:15	DWR
Volatile Organic Compounds (GC) by Method RSK175	WG1230299	1	01/31/19 13:33	01/31/19 13:33	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229700	1	01/29/19 17:40	01/29/19 17:40	DWR

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-144-012819 L1064837-03 GW

			Collected by KZ/RM	Collected date/time 01/28/19 14:25	Received date/time 01/29/19 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1230371	1	01/31/19 16:58	01/31/19 16:58	GB
Wet Chemistry by Method 9056A	WG1229612	1	01/29/19 15:49	01/29/19 15:49	ST
Wet Chemistry by Method 9056A	WG1229612	5	01/29/19 16:05	01/29/19 16:05	ST
Wet Chemistry by Method 9060A	WG1229541	1	01/29/19 13:53	01/29/19 13:53	EEM
Metals (ICPMS) by Method 6020B	WG1230036	1	01/30/19 08:59	01/30/19 13:45	JPD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1230033	1	01/30/19 07:38	01/30/19 07:38	DWR
Volatile Organic Compounds (GC) by Method RSK175	WG1230299	1	01/31/19 13:36	01/31/19 13:36	MEL
Volatile Organic Compounds (GC) by Method RSK175	WG1230299	10	01/31/19 15:08	01/31/19 15:08	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229700	1	01/29/19 18:00	01/29/19 18:00	DWR

MW-139-012819 L1064837-04 GW

			Collected by KZ/RM	Collected date/time 01/28/19 14:00	Received date/time 01/29/19 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1230033	1	01/30/19 08:01	01/30/19 08:01	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229700	1	01/29/19 18:21	01/29/19 18:21	DWR

MW-134-012819 L1064837-05 GW

			Collected by KZ/RM	Collected date/time 01/28/19 11:52	Received date/time 01/29/19 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1230033	1	01/30/19 08:23	01/30/19 08:23	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229700	1	01/29/19 18:41	01/29/19 18:41	DWR

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

1413.001.05.305

SDG:

L1064837

DATE/TIME:

02/05/19 16:54

PAGE:

3 of 35

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



TB-012819 L1064837-06 GW

Collected by
KZ/RM

Collected date/time
01/28/19 15:00

Received date/time
01/29/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1230033	1	01/30/19 00:20	01/30/19 00:20	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229700	1	01/29/19 13:58	01/29/19 13:58	ACG

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

1413.001.05.305

SDG:

L1064837

DATE/TIME:

02/05/19 16:54

PAGE:

4 of 35



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, 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
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	784000		2710	20000	1	01/31/2019 16:36	WG1230371

Sample Narrative:

L1064837-01 WG1230371: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	10100		51.9	1000	1	01/29/2019 15:02	WG1229612
Nitrate	U		22.7	100	1	01/29/2019 15:02	WG1229612
Sulfate	U		77.4	5000	1	01/29/2019 15:02	WG1229612

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	27700		102	1000	1	01/29/2019 13:16	WG1229541

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2870		15.0	100	1	01/30/2019 13:36	WG1230036
Manganese	2370		0.250	5.00	1	01/30/2019 13:36	WG1230036

Volatile Organic Compounds (GC) by Method NWTPHGX

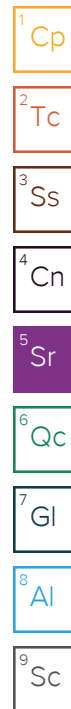
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/30/2019 06:52	WG1230033
(S) <i>o,a,a</i> -Trifluorotoluene(FID)	90.1			78.0-120		01/30/2019 06:52	WG1230033

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	3530		0.287	0.678	1	01/31/2019 13:29	WG1230299
Ethane	17.7		0.296	1.29	1	01/31/2019 13:29	WG1230299
Ethene	U		0.422	1.27	1	01/31/2019 13:29	WG1230299

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	6.98	J	1.05	25.0	1	01/29/2019 17:20	WG1229700
Acrylonitrile	U		0.873	5.00	1	01/29/2019 17:20	WG1229700
Benzene	0.442	J	0.0896	0.500	1	01/29/2019 17:20	WG1229700
Bromobenzene	U		0.133	0.500	1	01/29/2019 17:20	WG1229700
Bromodichloromethane	U		0.0800	0.500	1	01/29/2019 17:20	WG1229700
Bromochloromethane	U		0.145	0.500	1	01/29/2019 17:20	WG1229700
Bromoform	U		0.186	0.500	1	01/29/2019 17:20	WG1229700
Bromomethane	U		0.157	2.50	1	01/29/2019 17:20	WG1229700
n-Butylbenzene	U		0.143	0.500	1	01/29/2019 17:20	WG1229700
sec-Butylbenzene	U		0.134	0.500	1	01/29/2019 17:20	WG1229700
tert-Butylbenzene	U		0.183	0.500	1	01/29/2019 17:20	WG1229700
Carbon disulfide	U		0.101	0.500	1	01/29/2019 17:20	WG1229700
Carbon tetrachloride	U		0.159	0.500	1	01/29/2019 17:20	WG1229700





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/29/2019 17:20	WG1229700
Chlorodibromomethane	U		0.128	0.500	1	01/29/2019 17:20	WG1229700
Chloroethane	U		0.141	2.50	1	01/29/2019 17:20	WG1229700
Chloroform	U		0.0860	0.500	1	01/29/2019 17:20	WG1229700
Chloromethane	U		0.153	1.25	1	01/29/2019 17:20	WG1229700
2-Chlorotoluene	U		0.111	0.500	1	01/29/2019 17:20	WG1229700
4-Chlorotoluene	U		0.0972	0.500	1	01/29/2019 17:20	WG1229700
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/29/2019 17:20	WG1229700
1,2-Dibromoethane	U		0.193	0.500	1	01/29/2019 17:20	WG1229700
Dibromomethane	U		0.117	0.500	1	01/29/2019 17:20	WG1229700
1,2-Dichlorobenzene	U		0.101	0.500	1	01/29/2019 17:20	WG1229700
1,3-Dichlorobenzene	U		0.130	0.500	1	01/29/2019 17:20	WG1229700
1,4-Dichlorobenzene	U		0.121	0.500	1	01/29/2019 17:20	WG1229700
Dichlorodifluoromethane	U		0.127	2.50	1	01/29/2019 17:20	WG1229700
1,1-Dichloroethane	U		0.114	0.500	1	01/29/2019 17:20	WG1229700
1,2-Dichloroethane	U		0.108	0.500	1	01/29/2019 17:20	WG1229700
1,1-Dichloroethene	U		0.188	0.500	1	01/29/2019 17:20	WG1229700
cis-1,2-Dichloroethene	5.62		0.0933	0.500	1	01/29/2019 17:20	WG1229700
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/29/2019 17:20	WG1229700
1,2-Dichloropropane	U		0.190	0.500	1	01/29/2019 17:20	WG1229700
1,1-Dichloropropene	U		0.128	0.500	1	01/29/2019 17:20	WG1229700
1,3-Dichloropropane	U		0.147	1.00	1	01/29/2019 17:20	WG1229700
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/29/2019 17:20	WG1229700
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/29/2019 17:20	WG1229700
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/29/2019 17:20	WG1229700
2,2-Dichloropropane	U		0.0929	0.500	1	01/29/2019 17:20	WG1229700
Di-isopropyl ether	U		0.0924	0.500	1	01/29/2019 17:20	WG1229700
Ethylbenzene	U		0.158	0.500	1	01/29/2019 17:20	WG1229700
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/29/2019 17:20	WG1229700
2-Hexanone	U		0.757	5.00	1	01/29/2019 17:20	WG1229700
n-Hexane	U		0.305	5.00	1	01/29/2019 17:20	WG1229700
Iodomethane	U		0.377	10.0	1	01/29/2019 17:20	WG1229700
Isopropylbenzene	U		0.126	0.500	1	01/29/2019 17:20	WG1229700
p-Isopropyltoluene	U		0.138	0.500	1	01/29/2019 17:20	WG1229700
2-Butanone (MEK)	U		1.28	5.00	1	01/29/2019 17:20	WG1229700
Methylene Chloride	U		1.07	2.50	1	01/29/2019 17:20	WG1229700
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/29/2019 17:20	WG1229700
Methyl tert-butyl ether	U		0.102	0.500	1	01/29/2019 17:20	WG1229700
Naphthalene	U		0.174	2.50	1	01/29/2019 17:20	WG1229700
n-Propylbenzene	U		0.162	0.500	1	01/29/2019 17:20	WG1229700
Styrene	U		0.117	0.500	1	01/29/2019 17:20	WG1229700
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/29/2019 17:20	WG1229700
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/29/2019 17:20	WG1229700
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/29/2019 17:20	WG1229700
Tetrachloroethene	U		0.199	0.500	1	01/29/2019 17:20	WG1229700
Toluene	U		0.412	0.500	1	01/29/2019 17:20	WG1229700
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/29/2019 17:20	WG1229700
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/29/2019 17:20	WG1229700
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/29/2019 17:20	WG1229700
1,1,2-Trichloroethane	U		0.186	0.500	1	01/29/2019 17:20	WG1229700
Trichloroethene	U		0.153	0.500	1	01/29/2019 17:20	WG1229700
Trichlorofluoromethane	U		0.130	2.50	1	01/29/2019 17:20	WG1229700
1,2,3-Trichloropropane	U		0.247	2.50	1	01/29/2019 17:20	WG1229700
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/29/2019 17:20	WG1229700
1,2,3-Trimethylbenzene	U	JO	0.0739	0.500	1	01/29/2019 17:20	WG1229700
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/29/2019 17:20	WG1229700

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
Vinyl acetate	U		0.645	5.00	1	01/29/2019 17:20	WG1229700
Vinyl chloride	3.45		0.118	0.500	1	01/29/2019 17:20	WG1229700
Xylenes, Total	U		0.316	1.50	1	01/29/2019 17:20	WG1229700
(S) Toluene-d8	105			80.0-120		01/29/2019 17:20	WG1229700
(S) Dibromofluoromethane	98.9			75.0-120		01/29/2019 17:20	WG1229700
(S) 4-Bromofluorobenzene	86.8			77.0-126		01/29/2019 17:20	WG1229700

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	779000		2710	20000	1	01/31/2019 16:43	WG1230371

Sample Narrative:

L1064837-02 WG1230371: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	10200		51.9	1000	1	01/29/2019 15:33	WG1229612
Nitrate	U		22.7	100	1	01/29/2019 15:33	WG1229612
Sulfate	U		77.4	5000	1	01/29/2019 15:33	WG1229612

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	28300		102	1000	1	01/29/2019 13:37	WG1229541

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2660		15.0	100	1	01/30/2019 13:41	WG1230036
Manganese	2460		0.250	5.00	1	01/30/2019 13:41	WG1230036

Volatile Organic Compounds (GC) by Method NWTPHGX

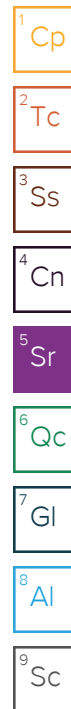
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/30/2019 07:15	WG1230033
(S) <i>o,a,a</i> -Trifluorotoluene(FID)	90.4			78.0-120		01/30/2019 07:15	WG1230033

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	3490		0.287	0.678	1	01/31/2019 13:33	WG1230299
Ethane	18.5		0.296	1.29	1	01/31/2019 13:33	WG1230299
Ethene	U		0.422	1.27	1	01/31/2019 13:33	WG1230299

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	8.44	J	1.05	25.0	1	01/29/2019 17:40	WG1229700
Acrylonitrile	U		0.873	5.00	1	01/29/2019 17:40	WG1229700
Benzene	0.410	J	0.0896	0.500	1	01/29/2019 17:40	WG1229700
Bromobenzene	U		0.133	0.500	1	01/29/2019 17:40	WG1229700
Bromodichloromethane	U		0.0800	0.500	1	01/29/2019 17:40	WG1229700
Bromochloromethane	U		0.145	0.500	1	01/29/2019 17:40	WG1229700
Bromoform	U		0.186	0.500	1	01/29/2019 17:40	WG1229700
Bromomethane	U		0.157	2.50	1	01/29/2019 17:40	WG1229700
n-Butylbenzene	U		0.143	0.500	1	01/29/2019 17:40	WG1229700
sec-Butylbenzene	U		0.134	0.500	1	01/29/2019 17:40	WG1229700
tert-Butylbenzene	U		0.183	0.500	1	01/29/2019 17:40	WG1229700
Carbon disulfide	U		0.101	0.500	1	01/29/2019 17:40	WG1229700
Carbon tetrachloride	U		0.159	0.500	1	01/29/2019 17:40	WG1229700





Collected date/time: 01/28/19 12:00

L1064837

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/29/2019 17:40	WG1229700
Chlorodibromomethane	U		0.128	0.500	1	01/29/2019 17:40	WG1229700
Chloroethane	U		0.141	2.50	1	01/29/2019 17:40	WG1229700
Chloroform	U		0.0860	0.500	1	01/29/2019 17:40	WG1229700
Chloromethane	U		0.153	1.25	1	01/29/2019 17:40	WG1229700
2-Chlorotoluene	U		0.111	0.500	1	01/29/2019 17:40	WG1229700
4-Chlorotoluene	U		0.0972	0.500	1	01/29/2019 17:40	WG1229700
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/29/2019 17:40	WG1229700
1,2-Dibromoethane	U		0.193	0.500	1	01/29/2019 17:40	WG1229700
Dibromomethane	U		0.117	0.500	1	01/29/2019 17:40	WG1229700
1,2-Dichlorobenzene	U		0.101	0.500	1	01/29/2019 17:40	WG1229700
1,3-Dichlorobenzene	U		0.130	0.500	1	01/29/2019 17:40	WG1229700
1,4-Dichlorobenzene	U		0.121	0.500	1	01/29/2019 17:40	WG1229700
Dichlorodifluoromethane	U		0.127	2.50	1	01/29/2019 17:40	WG1229700
1,1-Dichloroethane	U		0.114	0.500	1	01/29/2019 17:40	WG1229700
1,2-Dichloroethane	U		0.108	0.500	1	01/29/2019 17:40	WG1229700
1,1-Dichloroethene	U		0.188	0.500	1	01/29/2019 17:40	WG1229700
cis-1,2-Dichloroethene	5.67		0.0933	0.500	1	01/29/2019 17:40	WG1229700
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/29/2019 17:40	WG1229700
1,2-Dichloropropane	U		0.190	0.500	1	01/29/2019 17:40	WG1229700
1,1-Dichloropropene	U		0.128	0.500	1	01/29/2019 17:40	WG1229700
1,3-Dichloropropane	U		0.147	1.00	1	01/29/2019 17:40	WG1229700
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/29/2019 17:40	WG1229700
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/29/2019 17:40	WG1229700
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/29/2019 17:40	WG1229700
2,2-Dichloropropane	U		0.0929	0.500	1	01/29/2019 17:40	WG1229700
Di-isopropyl ether	U		0.0924	0.500	1	01/29/2019 17:40	WG1229700
Ethylbenzene	U		0.158	0.500	1	01/29/2019 17:40	WG1229700
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/29/2019 17:40	WG1229700
2-Hexanone	U		0.757	5.00	1	01/29/2019 17:40	WG1229700
n-Hexane	U		0.305	5.00	1	01/29/2019 17:40	WG1229700
Iodomethane	U		0.377	10.0	1	01/29/2019 17:40	WG1229700
Isopropylbenzene	U		0.126	0.500	1	01/29/2019 17:40	WG1229700
p-Isopropyltoluene	U		0.138	0.500	1	01/29/2019 17:40	WG1229700
2-Butanone (MEK)	U		1.28	5.00	1	01/29/2019 17:40	WG1229700
Methylene Chloride	U		1.07	2.50	1	01/29/2019 17:40	WG1229700
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/29/2019 17:40	WG1229700
Methyl tert-butyl ether	U		0.102	0.500	1	01/29/2019 17:40	WG1229700
Naphthalene	U		0.174	2.50	1	01/29/2019 17:40	WG1229700
n-Propylbenzene	U		0.162	0.500	1	01/29/2019 17:40	WG1229700
Styrene	U		0.117	0.500	1	01/29/2019 17:40	WG1229700
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/29/2019 17:40	WG1229700
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/29/2019 17:40	WG1229700
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/29/2019 17:40	WG1229700
Tetrachloroethene	U		0.199	0.500	1	01/29/2019 17:40	WG1229700
Toluene	U		0.412	0.500	1	01/29/2019 17:40	WG1229700
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/29/2019 17:40	WG1229700
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/29/2019 17:40	WG1229700
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/29/2019 17:40	WG1229700
1,1,2-Trichloroethane	U		0.186	0.500	1	01/29/2019 17:40	WG1229700
Trichloroethene	0.208	<u>I</u>	0.153	0.500	1	01/29/2019 17:40	WG1229700
Trichlorofluoromethane	U		0.130	2.50	1	01/29/2019 17:40	WG1229700
1,2,3-Trichloropropane	U		0.247	2.50	1	01/29/2019 17:40	WG1229700
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/29/2019 17:40	WG1229700
1,2,3-Trimethylbenzene	U	<u>JO</u>	0.0739	0.500	1	01/29/2019 17:40	WG1229700
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/29/2019 17:40	WG1229700

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ 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
Vinyl acetate	U		0.645	5.00	1	01/29/2019 17:40	WG1229700
Vinyl chloride	3.38		0.118	0.500	1	01/29/2019 17:40	WG1229700
Xylenes, Total	U		0.316	1.50	1	01/29/2019 17:40	WG1229700
(S) Toluene-d8	105			80.0-120		01/29/2019 17:40	WG1229700
(S) Dibromofluoromethane	99.4			75.0-120		01/29/2019 17:40	WG1229700
(S) 4-Bromofluorobenzene	85.7			77.0-126		01/29/2019 17:40	WG1229700

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	735000		2710	20000	1	01/31/2019 16:58	WG1230371

Sample Narrative:

L1064837-03 WG1230371: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	149000		260	5000	5	01/29/2019 16:05	WG1229612
Nitrate	U		22.7	100	1	01/29/2019 15:49	WG1229612
Sulfate	U		77.4	5000	1	01/29/2019 15:49	WG1229612

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	15100		102	1000	1	01/29/2019 13:53	WG1229541

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	1980		15.0	100	1	01/30/2019 13:45	WG1230036
Manganese	1660		0.250	5.00	1	01/30/2019 13:45	WG1230036

Volatile Organic Compounds (GC) by Method NWTPHGX

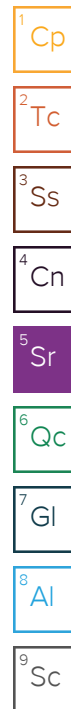
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/30/2019 07:38	WG1230033
(S) <i>o,a,a</i> -Trifluorotoluene(FID)	90.3			78.0-120		01/30/2019 07:38	WG1230033

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	13700		2.87	6.78	10	01/31/2019 15:08	WG1230299
Ethane	495		0.296	1.29	1	01/31/2019 13:36	WG1230299
Ethene	1140		0.422	1.27	1	01/31/2019 13:36	WG1230299

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	01/29/2019 18:00	WG1229700
Acrylonitrile	U		0.873	5.00	1	01/29/2019 18:00	WG1229700
Benzene	U		0.0896	0.500	1	01/29/2019 18:00	WG1229700
Bromobenzene	U		0.133	0.500	1	01/29/2019 18:00	WG1229700
Bromodichloromethane	U		0.0800	0.500	1	01/29/2019 18:00	WG1229700
Bromochloromethane	U		0.145	0.500	1	01/29/2019 18:00	WG1229700
Bromoform	U		0.186	0.500	1	01/29/2019 18:00	WG1229700
Bromomethane	U		0.157	2.50	1	01/29/2019 18:00	WG1229700
n-Butylbenzene	U		0.143	0.500	1	01/29/2019 18:00	WG1229700
sec-Butylbenzene	U		0.134	0.500	1	01/29/2019 18:00	WG1229700
tert-Butylbenzene	U		0.183	0.500	1	01/29/2019 18:00	WG1229700
Carbon disulfide	0.716		0.101	0.500	1	01/29/2019 18:00	WG1229700
Carbon tetrachloride	U		0.159	0.500	1	01/29/2019 18:00	WG1229700





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/29/2019 18:00	WG1229700
Chlorodibromomethane	U		0.128	0.500	1	01/29/2019 18:00	WG1229700
Chloroethane	U		0.141	2.50	1	01/29/2019 18:00	WG1229700
Chloroform	U		0.0860	0.500	1	01/29/2019 18:00	WG1229700
Chloromethane	U		0.153	1.25	1	01/29/2019 18:00	WG1229700
2-Chlorotoluene	U		0.111	0.500	1	01/29/2019 18:00	WG1229700
4-Chlorotoluene	U		0.0972	0.500	1	01/29/2019 18:00	WG1229700
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/29/2019 18:00	WG1229700
1,2-Dibromoethane	U		0.193	0.500	1	01/29/2019 18:00	WG1229700
Dibromomethane	U		0.117	0.500	1	01/29/2019 18:00	WG1229700
1,2-Dichlorobenzene	U		0.101	0.500	1	01/29/2019 18:00	WG1229700
1,3-Dichlorobenzene	U		0.130	0.500	1	01/29/2019 18:00	WG1229700
1,4-Dichlorobenzene	U		0.121	0.500	1	01/29/2019 18:00	WG1229700
Dichlorodifluoromethane	U		0.127	2.50	1	01/29/2019 18:00	WG1229700
1,1-Dichloroethane	U		0.114	0.500	1	01/29/2019 18:00	WG1229700
1,2-Dichloroethane	U		0.108	0.500	1	01/29/2019 18:00	WG1229700
1,1-Dichloroethene	U		0.188	0.500	1	01/29/2019 18:00	WG1229700
cis-1,2-Dichloroethene	10.4		0.0933	0.500	1	01/29/2019 18:00	WG1229700
trans-1,2-Dichloroethene	0.489	L	0.152	0.500	1	01/29/2019 18:00	WG1229700
1,2-Dichloropropane	U		0.190	0.500	1	01/29/2019 18:00	WG1229700
1,1-Dichloropropene	U		0.128	0.500	1	01/29/2019 18:00	WG1229700
1,3-Dichloropropane	U		0.147	1.00	1	01/29/2019 18:00	WG1229700
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/29/2019 18:00	WG1229700
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/29/2019 18:00	WG1229700
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/29/2019 18:00	WG1229700
2,2-Dichloropropane	U		0.0929	0.500	1	01/29/2019 18:00	WG1229700
Di-isopropyl ether	U		0.0924	0.500	1	01/29/2019 18:00	WG1229700
Ethylbenzene	U		0.158	0.500	1	01/29/2019 18:00	WG1229700
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/29/2019 18:00	WG1229700
2-Hexanone	U		0.757	5.00	1	01/29/2019 18:00	WG1229700
n-Hexane	U		0.305	5.00	1	01/29/2019 18:00	WG1229700
Iodomethane	U		0.377	10.0	1	01/29/2019 18:00	WG1229700
Isopropylbenzene	U		0.126	0.500	1	01/29/2019 18:00	WG1229700
p-Isopropyltoluene	U		0.138	0.500	1	01/29/2019 18:00	WG1229700
2-Butanone (MEK)	U		1.28	5.00	1	01/29/2019 18:00	WG1229700
Methylene Chloride	U		1.07	2.50	1	01/29/2019 18:00	WG1229700
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/29/2019 18:00	WG1229700
Methyl tert-butyl ether	U		0.102	0.500	1	01/29/2019 18:00	WG1229700
Naphthalene	U		0.174	2.50	1	01/29/2019 18:00	WG1229700
n-Propylbenzene	U		0.162	0.500	1	01/29/2019 18:00	WG1229700
Styrene	U		0.117	0.500	1	01/29/2019 18:00	WG1229700
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/29/2019 18:00	WG1229700
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/29/2019 18:00	WG1229700
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/29/2019 18:00	WG1229700
Tetrachloroethene	U		0.199	0.500	1	01/29/2019 18:00	WG1229700
Toluene	U		0.412	0.500	1	01/29/2019 18:00	WG1229700
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/29/2019 18:00	WG1229700
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/29/2019 18:00	WG1229700
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/29/2019 18:00	WG1229700
1,1,2-Trichloroethane	U		0.186	0.500	1	01/29/2019 18:00	WG1229700
Trichloroethene	0.251	L	0.153	0.500	1	01/29/2019 18:00	WG1229700
Trichlorofluoromethane	U		0.130	2.50	1	01/29/2019 18:00	WG1229700
1,2,3-Trichloropropane	U		0.247	2.50	1	01/29/2019 18:00	WG1229700
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/29/2019 18:00	WG1229700
1,2,3-Trimethylbenzene	U	JO	0.0739	0.500	1	01/29/2019 18:00	WG1229700
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/29/2019 18:00	WG1229700

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
Vinyl acetate	U		0.645	5.00	1	01/29/2019 18:00	WG1229700
Vinyl chloride	40.4		0.118	0.500	1	01/29/2019 18:00	WG1229700
Xylenes, Total	U		0.316	1.50	1	01/29/2019 18:00	WG1229700
(S) Toluene-d8	108			80.0-120		01/29/2019 18:00	WG1229700
(S) Dibromofluoromethane	96.8			75.0-120		01/29/2019 18:00	WG1229700
(S) 4-Bromofluorobenzene	86.8			77.0-126		01/29/2019 18:00	WG1229700

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	U		31.6	100	1	01/30/2019 08:01	WG1230033
(S) a,a,a-Trifluorotoluene(FID)	90.5			78.0-120		01/30/2019 08:01	WG1230033

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
Acetone	7.66	J	1.05	25.0	1	01/29/2019 18:21	WG1229700
Acrylonitrile	U		0.873	5.00	1	01/29/2019 18:21	WG1229700
Benzene	U		0.0896	0.500	1	01/29/2019 18:21	WG1229700
Bromobenzene	U		0.133	0.500	1	01/29/2019 18:21	WG1229700
Bromodichloromethane	U		0.0800	0.500	1	01/29/2019 18:21	WG1229700
Bromochloromethane	U		0.145	0.500	1	01/29/2019 18:21	WG1229700
Bromoform	U		0.186	0.500	1	01/29/2019 18:21	WG1229700
Bromomethane	U		0.157	2.50	1	01/29/2019 18:21	WG1229700
n-Butylbenzene	U		0.143	0.500	1	01/29/2019 18:21	WG1229700
sec-Butylbenzene	U		0.134	0.500	1	01/29/2019 18:21	WG1229700
tert-Butylbenzene	U		0.183	0.500	1	01/29/2019 18:21	WG1229700
Carbon disulfide	U		0.101	0.500	1	01/29/2019 18:21	WG1229700
Carbon tetrachloride	U		0.159	0.500	1	01/29/2019 18:21	WG1229700
Chlorobenzene	U		0.140	0.500	1	01/29/2019 18:21	WG1229700
Chlorodibromomethane	U		0.128	0.500	1	01/29/2019 18:21	WG1229700
Chloroethane	U		0.141	2.50	1	01/29/2019 18:21	WG1229700
Chloroform	U		0.0860	0.500	1	01/29/2019 18:21	WG1229700
Chloromethane	U		0.153	1.25	1	01/29/2019 18:21	WG1229700
2-Chlorotoluene	U		0.111	0.500	1	01/29/2019 18:21	WG1229700
4-Chlorotoluene	U		0.0972	0.500	1	01/29/2019 18:21	WG1229700
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/29/2019 18:21	WG1229700
1,2-Dibromoethane	U		0.193	0.500	1	01/29/2019 18:21	WG1229700
Dibromomethane	U		0.117	0.500	1	01/29/2019 18:21	WG1229700
1,2-Dichlorobenzene	U		0.101	0.500	1	01/29/2019 18:21	WG1229700
1,3-Dichlorobenzene	U		0.130	0.500	1	01/29/2019 18:21	WG1229700
1,4-Dichlorobenzene	U		0.121	0.500	1	01/29/2019 18:21	WG1229700
Dichlorodifluoromethane	U		0.127	2.50	1	01/29/2019 18:21	WG1229700
1,1-Dichloroethane	U		0.114	0.500	1	01/29/2019 18:21	WG1229700
1,2-Dichloroethane	U		0.108	0.500	1	01/29/2019 18:21	WG1229700
1,1-Dichloroethene	U		0.188	0.500	1	01/29/2019 18:21	WG1229700
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/29/2019 18:21	WG1229700
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/29/2019 18:21	WG1229700
1,2-Dichloropropane	U		0.190	0.500	1	01/29/2019 18:21	WG1229700
1,1-Dichloropropene	U		0.128	0.500	1	01/29/2019 18:21	WG1229700
1,3-Dichloropropane	U		0.147	1.00	1	01/29/2019 18:21	WG1229700
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/29/2019 18:21	WG1229700
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/29/2019 18:21	WG1229700
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/29/2019 18:21	WG1229700
2,2-Dichloropropane	U		0.0929	0.500	1	01/29/2019 18:21	WG1229700
Di-isopropyl ether	U		0.0924	0.500	1	01/29/2019 18:21	WG1229700
Ethylbenzene	U		0.158	0.500	1	01/29/2019 18:21	WG1229700
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/29/2019 18:21	WG1229700
2-Hexanone	U		0.757	5.00	1	01/29/2019 18:21	WG1229700
n-Hexane	U		0.305	5.00	1	01/29/2019 18:21	WG1229700
Iodomethane	U		0.377	10.0	1	01/29/2019 18:21	WG1229700
Isopropylbenzene	U		0.126	0.500	1	01/29/2019 18:21	WG1229700
p-Isopropyltoluene	U		0.138	0.500	1	01/29/2019 18:21	WG1229700
2-Butanone (MEK)	U		1.28	5.00	1	01/29/2019 18:21	WG1229700



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	01/29/2019 18:21	WG1229700
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/29/2019 18:21	WG1229700
Methyl tert-butyl ether	U		0.102	0.500	1	01/29/2019 18:21	WG1229700
Naphthalene	U		0.174	2.50	1	01/29/2019 18:21	WG1229700
n-Propylbenzene	U		0.162	0.500	1	01/29/2019 18:21	WG1229700
Styrene	U		0.117	0.500	1	01/29/2019 18:21	WG1229700
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/29/2019 18:21	WG1229700
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/29/2019 18:21	WG1229700
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/29/2019 18:21	WG1229700
Tetrachloroethene	U		0.199	0.500	1	01/29/2019 18:21	WG1229700
Toluene	U		0.412	0.500	1	01/29/2019 18:21	WG1229700
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/29/2019 18:21	WG1229700
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/29/2019 18:21	WG1229700
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/29/2019 18:21	WG1229700
1,1,2-Trichloroethane	U		0.186	0.500	1	01/29/2019 18:21	WG1229700
Trichloroethene	U		0.153	0.500	1	01/29/2019 18:21	WG1229700
Trichlorofluoromethane	U		0.130	2.50	1	01/29/2019 18:21	WG1229700
1,2,3-Trichloropropane	U		0.247	2.50	1	01/29/2019 18:21	WG1229700
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/29/2019 18:21	WG1229700
1,2,3-Trimethylbenzene	U	<u>JO</u>	0.0739	0.500	1	01/29/2019 18:21	WG1229700
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/29/2019 18:21	WG1229700
Vinyl acetate	U		0.645	5.00	1	01/29/2019 18:21	WG1229700
Vinyl chloride	U		0.118	0.500	1	01/29/2019 18:21	WG1229700
Xylenes, Total	U		0.316	1.50	1	01/29/2019 18:21	WG1229700
(S) Toluene-d8	110			80.0-120		01/29/2019 18:21	WG1229700
(S) Dibromofluoromethane	97.8			75.0-120		01/29/2019 18:21	WG1229700
(S) 4-Bromofluorobenzene	85.3			77.0-126		01/29/2019 18:21	WG1229700

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	U		31.6	100	1	01/30/2019 08:23	WG1230033
(S) a,a,a-Trifluorotoluene(FID)	90.4			78.0-120		01/30/2019 08:23	WG1230033

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
Acetone	7.59	J	1.05	25.0	1	01/29/2019 18:41	WG1229700
Acrylonitrile	U		0.873	5.00	1	01/29/2019 18:41	WG1229700
Benzene	U		0.0896	0.500	1	01/29/2019 18:41	WG1229700
Bromobenzene	U		0.133	0.500	1	01/29/2019 18:41	WG1229700
Bromodichloromethane	U		0.0800	0.500	1	01/29/2019 18:41	WG1229700
Bromochloromethane	U		0.145	0.500	1	01/29/2019 18:41	WG1229700
Bromoform	U		0.186	0.500	1	01/29/2019 18:41	WG1229700
Bromomethane	U		0.157	2.50	1	01/29/2019 18:41	WG1229700
n-Butylbenzene	U		0.143	0.500	1	01/29/2019 18:41	WG1229700
sec-Butylbenzene	U		0.134	0.500	1	01/29/2019 18:41	WG1229700
tert-Butylbenzene	U		0.183	0.500	1	01/29/2019 18:41	WG1229700
Carbon disulfide	U		0.101	0.500	1	01/29/2019 18:41	WG1229700
Carbon tetrachloride	U		0.159	0.500	1	01/29/2019 18:41	WG1229700
Chlorobenzene	U		0.140	0.500	1	01/29/2019 18:41	WG1229700
Chlorodibromomethane	U		0.128	0.500	1	01/29/2019 18:41	WG1229700
Chloroethane	U		0.141	2.50	1	01/29/2019 18:41	WG1229700
Chloroform	U		0.0860	0.500	1	01/29/2019 18:41	WG1229700
Chloromethane	U		0.153	1.25	1	01/29/2019 18:41	WG1229700
2-Chlorotoluene	U		0.111	0.500	1	01/29/2019 18:41	WG1229700
4-Chlorotoluene	U		0.0972	0.500	1	01/29/2019 18:41	WG1229700
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/29/2019 18:41	WG1229700
1,2-Dibromoethane	U		0.193	0.500	1	01/29/2019 18:41	WG1229700
Dibromomethane	U		0.117	0.500	1	01/29/2019 18:41	WG1229700
1,2-Dichlorobenzene	U		0.101	0.500	1	01/29/2019 18:41	WG1229700
1,3-Dichlorobenzene	U		0.130	0.500	1	01/29/2019 18:41	WG1229700
1,4-Dichlorobenzene	U		0.121	0.500	1	01/29/2019 18:41	WG1229700
Dichlorodifluoromethane	U		0.127	2.50	1	01/29/2019 18:41	WG1229700
1,1-Dichloroethane	U		0.114	0.500	1	01/29/2019 18:41	WG1229700
1,2-Dichloroethane	U		0.108	0.500	1	01/29/2019 18:41	WG1229700
1,1-Dichloroethene	U		0.188	0.500	1	01/29/2019 18:41	WG1229700
cis-1,2-Dichloroethene	0.609		0.0933	0.500	1	01/29/2019 18:41	WG1229700
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/29/2019 18:41	WG1229700
1,2-Dichloropropane	U		0.190	0.500	1	01/29/2019 18:41	WG1229700
1,1-Dichloropropene	U		0.128	0.500	1	01/29/2019 18:41	WG1229700
1,3-Dichloropropane	U		0.147	1.00	1	01/29/2019 18:41	WG1229700
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/29/2019 18:41	WG1229700
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/29/2019 18:41	WG1229700
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/29/2019 18:41	WG1229700
2,2-Dichloropropane	U		0.0929	0.500	1	01/29/2019 18:41	WG1229700
Di-isopropyl ether	U		0.0924	0.500	1	01/29/2019 18:41	WG1229700
Ethylbenzene	U		0.158	0.500	1	01/29/2019 18:41	WG1229700
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/29/2019 18:41	WG1229700
2-Hexanone	U		0.757	5.00	1	01/29/2019 18:41	WG1229700
n-Hexane	U		0.305	5.00	1	01/29/2019 18:41	WG1229700
Iodomethane	U		0.377	10.0	1	01/29/2019 18:41	WG1229700
Isopropylbenzene	U		0.126	0.500	1	01/29/2019 18:41	WG1229700
p-Isopropyltoluene	U		0.138	0.500	1	01/29/2019 18:41	WG1229700
2-Butanone (MEK)	U		1.28	5.00	1	01/29/2019 18:41	WG1229700



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	01/29/2019 18:41	WG1229700
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/29/2019 18:41	WG1229700
Methyl tert-butyl ether	U		0.102	0.500	1	01/29/2019 18:41	WG1229700
Naphthalene	U		0.174	2.50	1	01/29/2019 18:41	WG1229700
n-Propylbenzene	U		0.162	0.500	1	01/29/2019 18:41	WG1229700
Styrene	U		0.117	0.500	1	01/29/2019 18:41	WG1229700
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/29/2019 18:41	WG1229700
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/29/2019 18:41	WG1229700
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/29/2019 18:41	WG1229700
Tetrachloroethene	U		0.199	0.500	1	01/29/2019 18:41	WG1229700
Toluene	U		0.412	0.500	1	01/29/2019 18:41	WG1229700
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/29/2019 18:41	WG1229700
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/29/2019 18:41	WG1229700
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/29/2019 18:41	WG1229700
1,1,2-Trichloroethane	U		0.186	0.500	1	01/29/2019 18:41	WG1229700
Trichloroethene	U		0.153	0.500	1	01/29/2019 18:41	WG1229700
Trichlorofluoromethane	U		0.130	2.50	1	01/29/2019 18:41	WG1229700
1,2,3-Trichloropropane	U		0.247	2.50	1	01/29/2019 18:41	WG1229700
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/29/2019 18:41	WG1229700
1,2,3-Trimethylbenzene	U	<u>JO</u>	0.0739	0.500	1	01/29/2019 18:41	WG1229700
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/29/2019 18:41	WG1229700
Vinyl acetate	U		0.645	5.00	1	01/29/2019 18:41	WG1229700
Vinyl chloride	32.4		0.118	0.500	1	01/29/2019 18:41	WG1229700
Xylenes, Total	U		0.316	1.50	1	01/29/2019 18:41	WG1229700
(S) Toluene-d8	107			80.0-120		01/29/2019 18:41	WG1229700
(S) Dibromofluoromethane	99.9			75.0-120		01/29/2019 18:41	WG1229700
(S) 4-Bromofluorobenzene	85.3			77.0-126		01/29/2019 18:41	WG1229700

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	53.1	<u>B</u>	31.6	100	1	01/30/2019 00:20	WG1230033
(S) a,a,a-Trifluorotoluene(FID)	88.7			78.0-120		01/30/2019 00:20	WG1230033

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
Acetone	11.6	<u>J</u>	1.05	25.0	1	01/29/2019 13:58	WG1229700
Acrylonitrile	U		0.873	5.00	1	01/29/2019 13:58	WG1229700
Benzene	U		0.0896	0.500	1	01/29/2019 13:58	WG1229700
Bromobenzene	U		0.133	0.500	1	01/29/2019 13:58	WG1229700
Bromodichloromethane	U		0.0800	0.500	1	01/29/2019 13:58	WG1229700
Bromochloromethane	U		0.145	0.500	1	01/29/2019 13:58	WG1229700
Bromoform	U		0.186	0.500	1	01/29/2019 13:58	WG1229700
Bromomethane	U		0.157	2.50	1	01/29/2019 13:58	WG1229700
n-Butylbenzene	U		0.143	0.500	1	01/29/2019 13:58	WG1229700
sec-Butylbenzene	U		0.134	0.500	1	01/29/2019 13:58	WG1229700
tert-Butylbenzene	U		0.183	0.500	1	01/29/2019 13:58	WG1229700
Carbon disulfide	U		0.101	0.500	1	01/29/2019 13:58	WG1229700
Carbon tetrachloride	U		0.159	0.500	1	01/29/2019 13:58	WG1229700
Chlorobenzene	U		0.140	0.500	1	01/29/2019 13:58	WG1229700
Chlorodibromomethane	U		0.128	0.500	1	01/29/2019 13:58	WG1229700
Chloroethane	U		0.141	2.50	1	01/29/2019 13:58	WG1229700
Chloroform	U		0.0860	0.500	1	01/29/2019 13:58	WG1229700
Chloromethane	U		0.153	1.25	1	01/29/2019 13:58	WG1229700
2-Chlorotoluene	U		0.111	0.500	1	01/29/2019 13:58	WG1229700
4-Chlorotoluene	U		0.0972	0.500	1	01/29/2019 13:58	WG1229700
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/29/2019 13:58	WG1229700
1,2-Dibromoethane	U		0.193	0.500	1	01/29/2019 13:58	WG1229700
Dibromomethane	U		0.117	0.500	1	01/29/2019 13:58	WG1229700
1,2-Dichlorobenzene	U		0.101	0.500	1	01/29/2019 13:58	WG1229700
1,3-Dichlorobenzene	U		0.130	0.500	1	01/29/2019 13:58	WG1229700
1,4-Dichlorobenzene	U		0.121	0.500	1	01/29/2019 13:58	WG1229700
Dichlorodifluoromethane	U		0.127	2.50	1	01/29/2019 13:58	WG1229700
1,1-Dichloroethane	U		0.114	0.500	1	01/29/2019 13:58	WG1229700
1,2-Dichloroethane	U		0.108	0.500	1	01/29/2019 13:58	WG1229700
1,1-Dichloroethene	U		0.188	0.500	1	01/29/2019 13:58	WG1229700
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/29/2019 13:58	WG1229700
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/29/2019 13:58	WG1229700
1,2-Dichloropropane	U		0.190	0.500	1	01/29/2019 13:58	WG1229700
1,1-Dichloropropene	U		0.128	0.500	1	01/29/2019 13:58	WG1229700
1,3-Dichloropropane	U		0.147	1.00	1	01/29/2019 13:58	WG1229700
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/29/2019 13:58	WG1229700
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/29/2019 13:58	WG1229700
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/29/2019 13:58	WG1229700
2,2-Dichloropropane	U		0.0929	0.500	1	01/29/2019 13:58	WG1229700
Di-isopropyl ether	U		0.0924	0.500	1	01/29/2019 13:58	WG1229700
Ethylbenzene	U		0.158	0.500	1	01/29/2019 13:58	WG1229700
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/29/2019 13:58	WG1229700
2-Hexanone	U		0.757	5.00	1	01/29/2019 13:58	WG1229700
n-Hexane	U		0.305	5.00	1	01/29/2019 13:58	WG1229700
Iodomethane	U		0.377	10.0	1	01/29/2019 13:58	WG1229700
Isopropylbenzene	U		0.126	0.500	1	01/29/2019 13:58	WG1229700
p-Isopropyltoluene	U		0.138	0.500	1	01/29/2019 13:58	WG1229700
2-Butanone (MEK)	U		1.28	5.00	1	01/29/2019 13:58	WG1229700



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	01/29/2019 13:58	WG1229700
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/29/2019 13:58	WG1229700
Methyl tert-butyl ether	U		0.102	0.500	1	01/29/2019 13:58	WG1229700
Naphthalene	U		0.174	2.50	1	01/29/2019 13:58	WG1229700
n-Propylbenzene	U		0.162	0.500	1	01/29/2019 13:58	WG1229700
Styrene	U		0.117	0.500	1	01/29/2019 13:58	WG1229700
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/29/2019 13:58	WG1229700
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/29/2019 13:58	WG1229700
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/29/2019 13:58	WG1229700
Tetrachloroethene	U		0.199	0.500	1	01/29/2019 13:58	WG1229700
Toluene	2.44		0.412	0.500	1	01/29/2019 13:58	WG1229700
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/29/2019 13:58	WG1229700
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/29/2019 13:58	WG1229700
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/29/2019 13:58	WG1229700
1,1,2-Trichloroethane	U		0.186	0.500	1	01/29/2019 13:58	WG1229700
Trichloroethene	U		0.153	0.500	1	01/29/2019 13:58	WG1229700
Trichlorofluoromethane	U		0.130	2.50	1	01/29/2019 13:58	WG1229700
1,2,3-Trichloropropane	U		0.247	2.50	1	01/29/2019 13:58	WG1229700
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/29/2019 13:58	WG1229700
1,2,3-Trimethylbenzene	U	JO	0.0739	0.500	1	01/29/2019 13:58	WG1229700
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/29/2019 13:58	WG1229700
Vinyl acetate	U		0.645	5.00	1	01/29/2019 13:58	WG1229700
Vinyl chloride	U		0.118	0.500	1	01/29/2019 13:58	WG1229700
Xylenes, Total	U		0.316	1.50	1	01/29/2019 13:58	WG1229700
(S) Toluene-d8	109			80.0-120		01/29/2019 13:58	WG1229700
(S) Dibromofluoromethane	96.3			75.0-120		01/29/2019 13:58	WG1229700
(S) 4-Bromofluorobenzene	85.3			77.0-126		01/29/2019 13:58	WG1229700

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



Method Blank (MB)

(MB) R3380361-1 01/31/19 13:37

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Alkalinity	4270	⬇	2710	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1064247-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1064247-01 01/31/19 13:46 • (DUP) R3380361-3 01/31/19 13:53

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	57100	57500	1	0.684		20

Sample Narrative:

OS: Endpoint pH 4.5 HEADSPACE

DUP: Endpoint pH 4.5

L1064582-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1064582-04 01/31/19 16:16 • (DUP) R3380361-5 01/31/19 16:23

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	176000	176000	1	0.167		20

Sample Narrative:

OS: Endpoint pH 4.5 HEADSPACE

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3380361-4 01/31/19 15:01

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Alkalinity	100000	98900	98.9	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3379737-1 01/29/19 09:42

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Chloride	U		51.9	1000
Nitrate	U		22.7	100
Sulfate	U		77.4	5000

L1064837-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1064837-01 01/29/19 15:02 • (DUP) R3379737-3 01/29/19 15:17

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	10100	10100	1	0.158		15
Nitrate	U	0.000	1	0.000		15
Sulfate	U	0.000	1	0.000		15

L1064918-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1064918-01 01/29/19 22:11 • (DUP) R3379737-6 01/29/19 22:27

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	12000	11900	1	0.182		15
Nitrate	U	0.000	1	0.000		15
Sulfate	63100	63100	1	0.0187		15

Laboratory Control Sample (LCS)

(LCS) R3379737-2 01/29/19 09:58

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Chloride	40000	40600	102	80.0-120	
Nitrate	8000	8260	103	80.0-120	
Sulfate	40000	41100	103	80.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



L1064850-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1064850-02 01/29/19 18:28 • (MS) R3379737-4 01/29/19 18:44 • (MSD) R3379737-5 01/29/19 19:00

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 %
Chloride	50000	63400	111000	112000	95.5	96.8	1	80.0-120	E	E	0.595	15
Sulfate	50000	14500	64300	64300	99.5	99.5	1	80.0-120			0.0639	15

L1064918-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1064918-01 01/29/19 22:11 • (MS) R3379737-7 01/29/19 22:43

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	12000	59200	94.5	1	80.0-120	
Nitrate	5000	U	4660	93.3	1	80.0-120	
Sulfate	50000	63100	108000	89.1	1	80.0-120	E

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc



Method Blank (MB)

(MB) R3379436-1 01/29/19 09:23

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	196	⬇	102	1000

L1064711-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1064711-01 01/29/19 10:10 • (DUP) R3379436-3 01/29/19 10:23

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	3980	3850	1	3.32		20

Laboratory Control Sample (LCS)

(LCS) R3379436-2 01/29/19 09:57

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	75000	82100	109	85.0-115	

L1064289-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1064289-08 01/29/19 11:07 • (MS) R3379436-4 01/29/19 11:26 • (MSD) R3379436-5 01/29/19 11:44

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	50000	3360	57100	57000	108	107	1	80.0-120			0.263	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3379916-1 01/30/19 12:44

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iron	83.1	U	15.0	100
Manganese	0.650	U	0.250	5.00

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) R3379916-2 01/30/19 12:49 • (LCSD) R3379916-3 01/30/19 12:53

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 %
Iron	5000	5410	5440	108	109	80.0-120			0.540	20
Manganese	50.0	50.9	51.1	102	102	80.0-120			0.368	20

L1064914-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1064914-06 01/30/19 12:58 • (MS) R3379916-5 01/30/19 13:07 • (MSD) R3379916-6 01/30/19 13:11

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 %
Iron	5000	6740	11700	11500	100	96.0	1	75.0-125			1.73	20
Manganese	50.0	654	701	692	95.4	77.4	1	75.0-125			1.29	20



Method Blank (MB)

(MB) R3379920-2 01/29/19 23:45

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	60.0	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	88.9			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3379920-1 01/29/19 22:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5470	99.5	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			95.8	78.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3380249-1 01/31/19 13:20

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1065061-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1065061-01 01/31/19 13:52 • (DUP) R3380249-2 01/31/19 14:11

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Methane	U	0.000	1	0.000		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

L1065152-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1065152-02 01/31/19 14:20 • (DUP) R3380249-5 01/31/19 15:19

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Methane	276	276	1	0.0459		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

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

(LCS) R3380249-6 01/31/19 15:28 • (LCSD) R3380249-7 01/31/19 15:31

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	71.7	74.0	106	109	85.0-115			3.12	20
Ethane	129	113	117	87.5	90.6	85.0-115			3.41	20
Ethene	127	115	119	90.8	93.7	85.0-115			3.11	20



L1065170-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1065170-03 01/31/19 14:14 • (MS) R3380249-3 01/31/19 14:53 • (MSD) R3380249-4 01/31/19 14:56

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 %
Methane	67.8	2250	2320	2290	96.1	54.2	1	85.0-115		V	1.23	20
Ethane	129	U	114	122	88.4	94.4	1	85.0-115			6.52	20
Ethene	127	U	117	125	92.2	98.5	1	85.0-115			6.64	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3379539-2 01/29/19 13:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	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	0.384	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-1,4-Dichloro-2-butene	U		0.257	5.00
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
n-Hexane	U		0.305	5.00
trans-1,3-Dichloropropene	U		0.222	0.500
2,2-Dichloropropane	U		0.0929	0.500

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



Method Blank (MB)

(MB) R3379539-2 01/29/19 13:18

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iodomethane	U		0.377	10.0
Di-isopropyl ether	U		0.0924	0.500
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
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
Vinyl acetate	U		0.645	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
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	108			80.0-120
(S) Dibromofluoromethane	98.1			75.0-120
(S) 4-Bromofluorobenzene	84.4			77.0-126

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Laboratory Control Sample (LCS)

(LCS) R3379539-1 01/29/19 12:17

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
trans-1,4-Dichloro-2-butene	25.0	23.8	95.4	33.0-144	
n-Hexane	25.0	26.8	107	57.0-133	
Iodomethane	125	126	101	33.0-147	
Acetone	125	127	101	19.0-160	
Acrylonitrile	125	127	102	55.0-149	
Benzene	25.0	23.3	93.3	70.0-123	
Bromobenzene	25.0	21.3	85.2	73.0-121	
Bromodichloromethane	25.0	26.2	105	75.0-120	
Bromochloromethane	25.0	26.2	105	76.0-122	
Bromoform	25.0	24.6	98.2	68.0-132	
Bromomethane	25.0	26.6	106	10.0-160	
n-Butylbenzene	25.0	26.5	106	73.0-125	
sec-Butylbenzene	25.0	26.5	106	75.0-125	
tert-Butylbenzene	25.0	27.4	110	76.0-124	
Carbon disulfide	25.0	23.9	95.5	61.0-128	
Carbon tetrachloride	25.0	22.3	89.1	68.0-126	
Chlorobenzene	25.0	27.6	110	80.0-121	
Chlorodibromomethane	25.0	26.5	106	77.0-125	
Chloroethane	25.0	24.6	98.2	47.0-150	
Chloroform	25.0	23.2	93.0	73.0-120	
Chloromethane	25.0	26.2	105	41.0-142	
2-Chlorotoluene	25.0	24.6	98.3	76.0-123	
Vinyl acetate	125	159	127	11.0-160	
4-Chlorotoluene	25.0	25.3	101	75.0-122	
1,2-Dibromo-3-Chloropropane	25.0	25.9	104	58.0-134	
1,2-Dibromoethane	25.0	27.1	108	80.0-122	
Dibromomethane	25.0	26.5	106	80.0-120	
1,2-Dichlorobenzene	25.0	27.3	109	79.0-121	
1,3-Dichlorobenzene	25.0	27.1	108	79.0-120	
1,4-Dichlorobenzene	25.0	25.6	103	79.0-120	
Dichlorodifluoromethane	25.0	23.2	92.9	51.0-149	
1,1-Dichloroethane	25.0	25.2	101	70.0-126	
1,2-Dichloroethane	25.0	25.7	103	70.0-128	
1,1-Dichloroethene	25.0	25.1	100	71.0-124	
cis-1,2-Dichloroethene	25.0	24.5	97.9	73.0-120	
trans-1,2-Dichloroethene	25.0	24.6	98.3	73.0-120	
1,2-Dichloropropane	25.0	27.2	109	77.0-125	
1,1-Dichloropropene	25.0	23.3	93.1	74.0-126	
1,3-Dichloropropane	25.0	26.7	107	80.0-120	
cis-1,3-Dichloropropene	25.0	27.5	110	80.0-123	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3379539-1 01/29/19 12:17

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
trans-1,3-Dichloropropene	25.0	27.9	112	78.0-124	
2,2-Dichloropropane	25.0	28.2	113	58.0-130	
Di-isopropyl ether	25.0	26.3	105	58.0-138	
Ethylbenzene	25.0	25.3	101	79.0-123	
Hexachloro-1,3-butadiene	25.0	26.6	106	54.0-138	
2-Hexanone	125	141	113	67.0-149	
Isopropylbenzene	25.0	23.7	94.7	76.0-127	
p-Isopropyltoluene	25.0	27.8	111	76.0-125	
2-Butanone (MEK)	125	125	100	44.0-160	
Methylene Chloride	25.0	22.8	91.2	67.0-120	
4-Methyl-2-pentanone (MIBK)	125	137	109	68.0-142	
Methyl tert-butyl ether	25.0	25.0	100	68.0-125	
Naphthalene	25.0	24.2	96.8	54.0-135	
n-Propylbenzene	25.0	22.9	91.7	77.0-124	
Styrene	25.0	25.0	100	73.0-130	
1,1,1,2-Tetrachloroethane	25.0	27.7	111	75.0-125	
1,1,2,2-Tetrachloroethane	25.0	22.5	90.0	65.0-130	
Tetrachloroethene	25.0	28.0	112	72.0-132	
Toluene	25.0	26.4	105	79.0-120	
1,1,2-Trichlorotrifluoroethane	25.0	23.9	95.5	69.0-132	
1,2,3-Trichlorobenzene	25.0	24.6	98.3	50.0-138	
1,2,4-Trichlorobenzene	25.0	26.5	106	57.0-137	
1,1,1-Trichloroethane	25.0	25.2	101	73.0-124	
1,1,2-Trichloroethane	25.0	26.4	105	80.0-120	
Trichloroethene	25.0	26.7	107	78.0-124	
Trichlorofluoromethane	25.0	24.3	97.0	59.0-147	
1,2,3-Trichloropropane	25.0	24.9	99.6	73.0-130	
1,2,3-Trimethylbenzene	25.0	20.1	80.2	77.0-120	
1,2,4-Trimethylbenzene	25.0	26.5	106	76.0-121	
1,3,5-Trimethylbenzene	25.0	24.5	97.9	76.0-122	
Vinyl chloride	25.0	25.3	101	67.0-131	
Xylenes, Total	75.0	79.5	106	79.0-123	
(S) Toluene-d8			103	80.0-120	
(S) Dibromofluoromethane			98.5	75.0-120	
(S) 4-Bromofluorobenzene			86.3	77.0-126	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



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, the sample preparation volume or weight values differ from the standard, 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.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
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.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
V	The sample concentration is too high to evaluate accurate spike recoveries.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc



Pace National 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.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

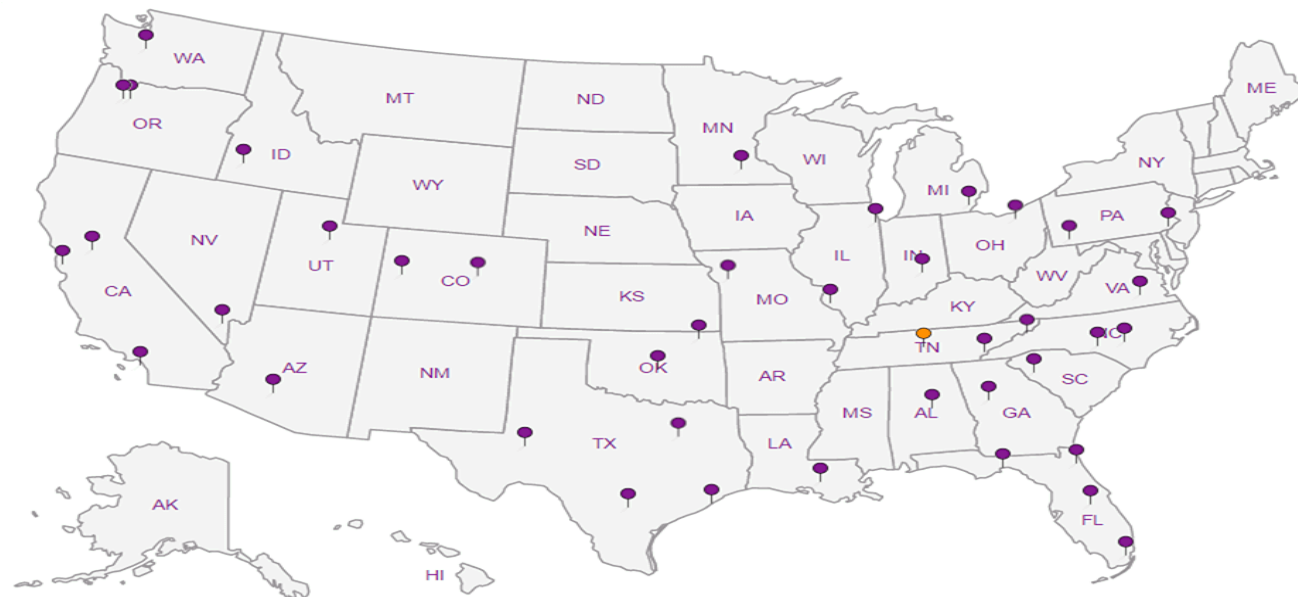
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National 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. Pace National 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:
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;
bhaldeman@pesenv.com;

KVIK@PESENV.COM

Project
Description: American Linen

City/State
Collected: Seattle, WA

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

Client Project #
1413.001.05.604 305

Lab Project #
PESENVSWA-ALP

Collected by (print): R. McLaughlin
Kovas Zygors

File/Facility ID #
American Linen

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Date Results Needed

Immediately: R. McLaughlin
Packed on Ice: N Y

Same Day ☒ Five Day
Next Day ☒ 5 Day (Rad Only)
Two Day ☐ 10 Day (Rad Only)
Three Day ☐

No.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NO3,SO4,Cl* 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM (RSK175LL) 40mlAmb-HCl	NWTPHGX 40mlAmb HCl	TOC 250mlAmb-HCl	Total Fe Mn 6020 250mlHDPE-HNO3	VOCs (8260LLC) 40mlAmb-HCl		
MW-142-012819	Grab	GW	45	01-28-19	1050	12	X	X	X	X	X	X	X		-01
MW-906-012819	Grab	GW	45	01-28-19	1200	12	X	X	X	X	X	X	X		-02
MW-144-012819	Grab	GW	45	01-28-19	1425	12	X	X	X	X	X	X	X		-03
MW-139-012819	Grab	GW	75	1-28-19	1400	6				X			X		-04
MW-134-012819	Grab	GW	83	1-28-19	1152	6				X			X		-05
TB-012819	Grab	GW	—	1-28-19	1500	1				X			X		-06
		GW													
		GW													
		GW													
		GW													

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

Remarks:

Samples returned via:
UPS FedEx Courier

Tracking # 7466 1463 9158

pH Temp
Flow Other

Sample Receipt Checklist
DOC Seal Present/Intact: ☒ Y ☐ N
DOC 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
RAD SCREEN: <0.5 mF/hr

Relinquished by: (Signature)
R. McLaughlin

Date: 1/28/19 Time: 1550

Received by: (Signature)

Trip Blank Received: ☒ Yes ☐ No
HCL/MeOH
TBR

Relinquished by: (Signature)

Date: Time:

Received by: (Signature)

Temp: °C Bottles Received:
0.4-0.2=0.2 48+1

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: Time:

Received for lab by: (Signature)

Date: 01/29/19 Time: 8:45

Hold: Condition:
NCF 1 OK



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-757-5859
Fax: 615-758-5859



L# 11064837
A209

Accession: PESENVSWA

Template: T143845

Prelogin: P685358

TSR: 110 - Brian Ford

PB: 12/13/18 MW

Shipped Via FedEx Ground

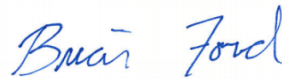
Remarks Sample # (lab only)

February 06, 2019

PES Environmental, Inc.- WA

Sample Delivery Group: L1065152
Samples Received: 01/30/2019
Project Number: 1413.001.05.601
Description: American Linen
Site: AMERICAN LINEN
Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford
Project Manager

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 Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Sr: Sample Results	6
MW-131-012919 L1065152-01	6
MW-145-012919 L1065152-02	8
MW-149-012919 L1065152-03	11
MW-143-012919 L1065152-04	13
MW-150-012919 L1065152-05	16
TRIP BLANK-012919 L1065152-06	18
Qc: Quality Control Summary	20
Wet Chemistry by Method 2320 B-2011	20
Wet Chemistry by Method 9056A	21
Wet Chemistry by Method 9060A	23
Metals (ICPMS) by Method 6020B	24
Volatile Organic Compounds (GC) by Method NWTPHGX	25
Volatile Organic Compounds (GC) by Method RSK175	26
Volatile Organic Compounds (GC/MS) by Method 8260C	28
Gl: Glossary of Terms	33
Al: Accreditations & Locations	34
Sc: Sample Chain of Custody	35



SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-131-012919 L1065152-01 GW

Collected by
KZ

Collected date/time
01/29/19 10:20

Received date/time
01/30/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1230592	1	01/31/19 04:19	01/31/19 04:19	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231554	1	02/01/19 18:39	02/01/19 18:39	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231885	1	02/03/19 13:53	02/03/19 13:53	ACG

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-145-012919 L1065152-02 GW

Collected by
KZ

Collected date/time
01/29/19 10:20

Received date/time
01/30/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1231115	1	02/01/19 16:47	02/01/19 16:47	GB
Wet Chemistry by Method 9056A	WG1230200	1	01/30/19 13:08	01/30/19 13:08	ELN
Wet Chemistry by Method 9060A	WG1230357	1	01/31/19 13:19	01/31/19 13:19	EEM
Metals (ICPMS) by Method 6020B	WG1230569	1	01/30/19 17:35	01/30/19 21:34	LD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1230592	1	01/31/19 04:41	01/31/19 04:41	BMB
Volatile Organic Compounds (GC) by Method RSK175	WG1230299	1	01/31/19 14:20	01/31/19 14:20	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231554	1	02/01/19 19:00	02/01/19 19:00	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231885	1	02/03/19 14:14	02/03/19 14:14	ACG

MW-149-012919 L1065152-03 GW

Collected by
KZ

Collected date/time
01/29/19 12:05

Received date/time
01/30/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1230592	100	01/31/19 05:02	01/31/19 05:02	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231554	100	02/01/19 19:20	02/01/19 19:20	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231885	1000	02/03/19 18:06	02/03/19 18:06	ACG

MW-143-012919 L1065152-04 GW

Collected by
KZ

Collected date/time
01/29/19 12:45

Received date/time
01/30/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1231115	1	02/01/19 16:54	02/01/19 16:54	GB
Wet Chemistry by Method 9056A	WG1230200	1	01/30/19 13:24	01/30/19 13:24	ELN
Wet Chemistry by Method 9060A	WG1230357	1	01/31/19 14:01	01/31/19 14:01	EEM
Metals (ICPMS) by Method 6020B	WG1230569	1	01/30/19 17:35	01/30/19 21:38	LD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1230592	1	01/31/19 05:24	01/31/19 05:24	BMB
Volatile Organic Compounds (GC) by Method RSK175	WG1230299	1	01/31/19 14:41	01/31/19 14:41	MEL
Volatile Organic Compounds (GC) by Method RSK175	WG1230299	10	01/31/19 15:16	01/31/19 15:16	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231554	1	02/01/19 19:40	02/01/19 19:40	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231885	1	02/03/19 14:32	02/03/19 14:32	ACG

MW-150-012919 L1065152-05 GW

Collected by
KZ

Collected date/time
01/29/19 13:05

Received date/time
01/30/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1230592	100	01/31/19 05:45	01/31/19 05:45	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231554	100	02/01/19 20:00	02/01/19 20:00	JAH

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

1413.001.05.601

SDG:

L1065152

DATE/TIME:

02/06/19 15:22

PAGE:

3 of 35

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



TRIP BLANK-012919 L1065152-06 GW

Collected by
KZ

Collected date/time
01/29/19 00:00

Received date/time
01/30/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231554	1	02/01/19 17:19	02/01/19 17:19	JAH

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, 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
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Collected date/time: 01/29/19 10:20

L1065152

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	43.7	J	31.6	100	1	01/31/2019 04:19	WG1230592
(S) a,a,a-Trifluorotoluene(FID)	95.1			78.0-120		01/31/2019 04:19	WG1230592

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	02/01/2019 18:39	WG1231554
Acrylonitrile	U		0.873	5.00	1	02/01/2019 18:39	WG1231554
Benzene	0.182	J	0.0896	0.500	1	02/01/2019 18:39	WG1231554
Bromobenzene	U		0.133	0.500	1	02/01/2019 18:39	WG1231554
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 18:39	WG1231554
Bromochloromethane	U		0.145	0.500	1	02/01/2019 18:39	WG1231554
Bromoform	U		0.186	0.500	1	02/01/2019 18:39	WG1231554
Bromomethane	U		0.157	2.50	1	02/01/2019 18:39	WG1231554
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 18:39	WG1231554
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 18:39	WG1231554
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 18:39	WG1231554
Carbon disulfide	U		0.101	0.500	1	02/01/2019 18:39	WG1231554
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 18:39	WG1231554
Chlorobenzene	U		0.140	0.500	1	02/01/2019 18:39	WG1231554
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 18:39	WG1231554
Chloroethane	0.367	J	0.141	2.50	1	02/01/2019 18:39	WG1231554
Chloroform	U		0.0860	0.500	1	02/01/2019 18:39	WG1231554
Chloromethane	U		0.153	1.25	1	02/01/2019 18:39	WG1231554
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 18:39	WG1231554
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 18:39	WG1231554
1,2-Dibromo-3-Chloropropane	U	JO	0.325	2.50	1	02/01/2019 18:39	WG1231554
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 18:39	WG1231554
Dibromomethane	U		0.117	0.500	1	02/01/2019 18:39	WG1231554
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 18:39	WG1231554
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 18:39	WG1231554
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 18:39	WG1231554
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 18:39	WG1231554
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 18:39	WG1231554
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 18:39	WG1231554
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 18:39	WG1231554
cis-1,2-Dichloroethene	0.774		0.0933	0.500	1	02/01/2019 18:39	WG1231554
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 18:39	WG1231554
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 18:39	WG1231554
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 18:39	WG1231554
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 18:39	WG1231554
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 18:39	WG1231554
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 18:39	WG1231554
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 18:39	WG1231554
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 18:39	WG1231554
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 18:39	WG1231554
Ethylbenzene	U		0.158	0.500	1	02/01/2019 18:39	WG1231554
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 18:39	WG1231554
2-Hexanone	U		0.757	5.00	1	02/01/2019 18:39	WG1231554
n-Hexane	U		0.305	5.00	1	02/01/2019 18:39	WG1231554
Iodomethane	U		0.377	10.0	1	02/01/2019 18:39	WG1231554
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 18:39	WG1231554
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 18:39	WG1231554
2-Butanone (MEK)	3.81	J JO	1.28	5.00	1	02/01/2019 18:39	WG1231554

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	02/01/2019 18:39	WG1231554
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 18:39	WG1231554
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 18:39	WG1231554
Naphthalene	U	<u>JO</u>	0.174	2.50	1	02/01/2019 18:39	WG1231554
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 18:39	WG1231554
Styrene	U		0.117	0.500	1	02/01/2019 18:39	WG1231554
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 18:39	WG1231554
1,1,2,2-Tetrachloroethane	U	<u>JO</u>	0.130	0.500	1	02/01/2019 18:39	WG1231554
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/01/2019 18:39	WG1231554
Tetrachloroethene	U		0.199	0.500	1	02/03/2019 13:53	WG1231885
Toluene	0.516		0.412	0.500	1	02/01/2019 18:39	WG1231554
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.164	0.500	1	02/01/2019 18:39	WG1231554
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 18:39	WG1231554
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 18:39	WG1231554
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 18:39	WG1231554
Trichloroethene	U		0.153	0.500	1	02/01/2019 18:39	WG1231554
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 18:39	WG1231554
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 18:39	WG1231554
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 18:39	WG1231554
1,2,3-Trimethylbenzene	U	<u>JO J4</u>	0.0739	0.500	1	02/01/2019 18:39	WG1231554
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 18:39	WG1231554
Vinyl acetate	U		0.645	5.00	1	02/01/2019 18:39	WG1231554
Vinyl chloride	0.539		0.118	0.500	1	02/01/2019 18:39	WG1231554
Xylenes, Total	U		0.316	1.50	1	02/01/2019 18:39	WG1231554
(S) Toluene-d8	104			80.0-120		02/01/2019 18:39	WG1231554
(S) Toluene-d8	100			80.0-120		02/03/2019 13:53	WG1231885
(S) Dibromofluoromethane	100			75.0-120		02/01/2019 18:39	WG1231554
(S) 4-Bromofluorobenzene	85.0			77.0-126		02/01/2019 18:39	WG1231554
(S) 4-Bromofluorobenzene	97.1			77.0-126		02/03/2019 13:53	WG1231885
(S) 1,2-Dichloroethane-d4	93.1			70.0-130		02/03/2019 13:53	WG1231885

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	255000		2710	20000	1	02/01/2019 16:47	WG1231115

Sample Narrative:

L1065152-02 WG1231115: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	43500		51.9	1000	1	01/30/2019 13:08	WG1230200
Nitrate	219		22.7	100	1	01/30/2019 13:08	WG1230200
Sulfate	55400		77.4	5000	1	01/30/2019 13:08	WG1230200

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4800		102	1000	1	01/31/2019 13:19	WG1230357

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	4850		15.0	100	1	01/30/2019 21:34	WG1230569
Manganese	193		0.250	5.00	1	01/30/2019 21:34	WG1230569

Volatile Organic Compounds (GC) by Method NWTPHGX

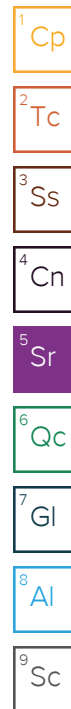
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/31/2019 04:41	WG1230592
(S) <i>o,a,a</i> -Trifluorotoluene(FID)	94.2			78.0-120		01/31/2019 04:41	WG1230592

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	276		0.287	0.678	1	01/31/2019 14:20	WG1230299
Ethane	U		0.296	1.29	1	01/31/2019 14:20	WG1230299
Ethene	U		0.422	1.27	1	01/31/2019 14:20	WG1230299

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	02/01/2019 19:00	WG1231554
Acrylonitrile	U		0.873	5.00	1	02/01/2019 19:00	WG1231554
Benzene	U		0.0896	0.500	1	02/01/2019 19:00	WG1231554
Bromobenzene	U		0.133	0.500	1	02/01/2019 19:00	WG1231554
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 19:00	WG1231554
Bromochloromethane	U		0.145	0.500	1	02/01/2019 19:00	WG1231554
Bromoform	U		0.186	0.500	1	02/01/2019 19:00	WG1231554
Bromomethane	U		0.157	2.50	1	02/01/2019 19:00	WG1231554
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 19:00	WG1231554
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 19:00	WG1231554
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 19:00	WG1231554
Carbon disulfide	U		0.101	0.500	1	02/01/2019 19:00	WG1231554
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 19:00	WG1231554





Collected date/time: 01/29/19 10:20

L1065152

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	02/01/2019 19:00	WG1231554
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 19:00	WG1231554
Chloroethane	U		0.141	2.50	1	02/01/2019 19:00	WG1231554
Chloroform	U		0.0860	0.500	1	02/01/2019 19:00	WG1231554
Chloromethane	U		0.153	1.25	1	02/01/2019 19:00	WG1231554
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 19:00	WG1231554
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 19:00	WG1231554
1,2-Dibromo-3-Chloropropane	U	JO	0.325	2.50	1	02/01/2019 19:00	WG1231554
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 19:00	WG1231554
Dibromomethane	U		0.117	0.500	1	02/01/2019 19:00	WG1231554
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 19:00	WG1231554
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 19:00	WG1231554
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 19:00	WG1231554
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 19:00	WG1231554
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 19:00	WG1231554
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 19:00	WG1231554
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 19:00	WG1231554
cis-1,2-Dichloroethene	0.316	J	0.0933	0.500	1	02/01/2019 19:00	WG1231554
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 19:00	WG1231554
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 19:00	WG1231554
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 19:00	WG1231554
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 19:00	WG1231554
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 19:00	WG1231554
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 19:00	WG1231554
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 19:00	WG1231554
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 19:00	WG1231554
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 19:00	WG1231554
Ethylbenzene	U		0.158	0.500	1	02/01/2019 19:00	WG1231554
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 19:00	WG1231554
2-Hexanone	U		0.757	5.00	1	02/01/2019 19:00	WG1231554
n-Hexane	U		0.305	5.00	1	02/01/2019 19:00	WG1231554
Iodomethane	U		0.377	10.0	1	02/01/2019 19:00	WG1231554
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 19:00	WG1231554
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 19:00	WG1231554
2-Butanone (MEK)	U	JO	1.28	5.00	1	02/01/2019 19:00	WG1231554
Methylene Chloride	U		1.07	2.50	1	02/01/2019 19:00	WG1231554
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 19:00	WG1231554
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 19:00	WG1231554
Naphthalene	U	JO	0.174	2.50	1	02/01/2019 19:00	WG1231554
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 19:00	WG1231554
Styrene	U		0.117	0.500	1	02/01/2019 19:00	WG1231554
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 19:00	WG1231554
1,1,2,2-Tetrachloroethane	U	JO	0.130	0.500	1	02/01/2019 19:00	WG1231554
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/01/2019 19:00	WG1231554
Tetrachloroethene	U		0.199	0.500	1	02/03/2019 14:14	WG1231885
Toluene	U		0.412	0.500	1	02/01/2019 19:00	WG1231554
1,2,3-Trichlorobenzene	U	JO	0.164	0.500	1	02/01/2019 19:00	WG1231554
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 19:00	WG1231554
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 19:00	WG1231554
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 19:00	WG1231554
Trichloroethene	U		0.153	0.500	1	02/01/2019 19:00	WG1231554
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 19:00	WG1231554
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 19:00	WG1231554
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 19:00	WG1231554
1,2,3-Trimethylbenzene	U	JO J4	0.0739	0.500	1	02/01/2019 19:00	WG1231554
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 19:00	WG1231554

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
Vinyl acetate	U		0.645	5.00	1	02/01/2019 19:00	WG1231554
Vinyl chloride	0.335	J	0.118	0.500	1	02/01/2019 19:00	WG1231554
Xylenes, Total	U		0.316	1.50	1	02/01/2019 19:00	WG1231554
(S) Toluene-d8	104			80.0-120		02/01/2019 19:00	WG1231554
(S) Toluene-d8	101			80.0-120		02/03/2019 14:14	WG1231885
(S) Dibromofluoromethane	99.0			75.0-120		02/01/2019 19:00	WG1231554
(S) 4-Bromofluorobenzene	84.0			77.0-126		02/01/2019 19:00	WG1231554
(S) 4-Bromofluorobenzene	93.5			77.0-126		02/03/2019 14:14	WG1231885
(S) 1,2-Dichloroethane-d4	93.4			70.0-130		02/03/2019 14:14	WG1231885

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	14400		3160	10000	100	01/31/2019 05:02	WG1230592
(S) a,a,a-Trifluorotoluene(FID)	96.4			78.0-120		01/31/2019 05:02	WG1230592

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	02/01/2019 19:20	WG1231554
Acrylonitrile	U		87.3	500	100	02/01/2019 19:20	WG1231554
Benzene	U		8.96	50.0	100	02/01/2019 19:20	WG1231554
Bromobenzene	U		13.3	50.0	100	02/01/2019 19:20	WG1231554
Bromodichloromethane	U		8.00	50.0	100	02/01/2019 19:20	WG1231554
Bromochloromethane	U		14.5	50.0	100	02/01/2019 19:20	WG1231554
Bromoform	U		18.6	50.0	100	02/01/2019 19:20	WG1231554
Bromomethane	U		15.7	250	100	02/01/2019 19:20	WG1231554
n-Butylbenzene	U		14.3	50.0	100	02/01/2019 19:20	WG1231554
sec-Butylbenzene	U		13.4	50.0	100	02/01/2019 19:20	WG1231554
tert-Butylbenzene	U		18.3	50.0	100	02/01/2019 19:20	WG1231554
Carbon disulfide	U		10.1	50.0	100	02/01/2019 19:20	WG1231554
Carbon tetrachloride	U		15.9	50.0	100	02/01/2019 19:20	WG1231554
Chlorobenzene	U		14.0	50.0	100	02/01/2019 19:20	WG1231554
Chlorodibromomethane	U		12.8	50.0	100	02/01/2019 19:20	WG1231554
Chloroethane	U		14.1	250	100	02/01/2019 19:20	WG1231554
Chloroform	U		8.60	50.0	100	02/01/2019 19:20	WG1231554
Chloromethane	U		15.3	125	100	02/01/2019 19:20	WG1231554
2-Chlorotoluene	U		11.1	50.0	100	02/01/2019 19:20	WG1231554
4-Chlorotoluene	U		9.72	50.0	100	02/01/2019 19:20	WG1231554
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	32.5	250	100	02/01/2019 19:20	WG1231554
1,2-Dibromoethane	U		19.3	50.0	100	02/01/2019 19:20	WG1231554
Dibromomethane	U		11.7	50.0	100	02/01/2019 19:20	WG1231554
1,2-Dichlorobenzene	U		10.1	50.0	100	02/01/2019 19:20	WG1231554
1,3-Dichlorobenzene	U		13.0	50.0	100	02/01/2019 19:20	WG1231554
1,4-Dichlorobenzene	U		12.1	50.0	100	02/01/2019 19:20	WG1231554
Dichlorodifluoromethane	U		12.7	250	100	02/01/2019 19:20	WG1231554
1,1-Dichloroethane	U		11.4	50.0	100	02/01/2019 19:20	WG1231554
1,2-Dichloroethane	U		10.8	50.0	100	02/01/2019 19:20	WG1231554
1,1-Dichloroethene	U		18.8	50.0	100	02/01/2019 19:20	WG1231554
cis-1,2-Dichloroethene	4350		9.33	50.0	100	02/01/2019 19:20	WG1231554
trans-1,2-Dichloroethene	U		15.2	50.0	100	02/01/2019 19:20	WG1231554
1,2-Dichloropropane	U		19.0	50.0	100	02/01/2019 19:20	WG1231554
1,1-Dichloropropene	U		12.8	50.0	100	02/01/2019 19:20	WG1231554
1,3-Dichloropropane	U		14.7	100	100	02/01/2019 19:20	WG1231554
cis-1,3-Dichloropropene	U		9.76	50.0	100	02/01/2019 19:20	WG1231554
trans-1,3-Dichloropropene	U		22.2	50.0	100	02/01/2019 19:20	WG1231554
trans-1,4-Dichloro-2-butene	U		25.7	500	100	02/01/2019 19:20	WG1231554
2,2-Dichloropropane	U		9.29	50.0	100	02/01/2019 19:20	WG1231554
Di-isopropyl ether	U		9.24	50.0	100	02/01/2019 19:20	WG1231554
Ethylbenzene	U		15.8	50.0	100	02/01/2019 19:20	WG1231554
Hexachloro-1,3-butadiene	U		15.7	100	100	02/01/2019 19:20	WG1231554
2-Hexanone	U		75.7	500	100	02/01/2019 19:20	WG1231554
n-Hexane	U		30.5	500	100	02/01/2019 19:20	WG1231554
Iodomethane	U		37.7	1000	100	02/01/2019 19:20	WG1231554
Isopropylbenzene	U		12.6	50.0	100	02/01/2019 19:20	WG1231554
p-Isopropyltoluene	U		13.8	50.0	100	02/01/2019 19:20	WG1231554
2-Butanone (MEK)	U	<u>JO</u>	128	500	100	02/01/2019 19:20	WG1231554

1 Cp

2 Tc

3 Ss

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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		107	250	100	02/01/2019 19:20	WG1231554
4-Methyl-2-pentanone (MIBK)	U		82.3	500	100	02/01/2019 19:20	WG1231554
Methyl tert-butyl ether	U		10.2	50.0	100	02/01/2019 19:20	WG1231554
Naphthalene	U	<u>JO</u>	17.4	250	100	02/01/2019 19:20	WG1231554
n-Propylbenzene	U		16.2	50.0	100	02/01/2019 19:20	WG1231554
Styrene	U		11.7	50.0	100	02/01/2019 19:20	WG1231554
1,1,1,2-Tetrachloroethane	U		12.0	50.0	100	02/01/2019 19:20	WG1231554
1,1,2,2-Tetrachloroethane	U	<u>JO</u>	13.0	50.0	100	02/01/2019 19:20	WG1231554
1,1,2-Trichlorotrifluoroethane	U		16.4	50.0	100	02/01/2019 19:20	WG1231554
Tetrachloroethene	23700		199	500	1000	02/03/2019 18:06	WG1231885
Toluene	U		41.2	50.0	100	02/01/2019 19:20	WG1231554
1,2,3-Trichlorobenzene	U	<u>JO</u>	16.4	50.0	100	02/01/2019 19:20	WG1231554
1,2,4-Trichlorobenzene	U		35.5	50.0	100	02/01/2019 19:20	WG1231554
1,1,1-Trichloroethane	U		9.40	50.0	100	02/01/2019 19:20	WG1231554
1,1,2-Trichloroethane	U		18.6	50.0	100	02/01/2019 19:20	WG1231554
Trichloroethene	3800		15.3	50.0	100	02/01/2019 19:20	WG1231554
Trichlorofluoromethane	U		13.0	250	100	02/01/2019 19:20	WG1231554
1,2,3-Trichloropropane	U		24.7	250	100	02/01/2019 19:20	WG1231554
1,2,4-Trimethylbenzene	U		12.3	50.0	100	02/01/2019 19:20	WG1231554
1,2,3-Trimethylbenzene	U	<u>JO J4</u>	7.39	50.0	100	02/01/2019 19:20	WG1231554
1,3,5-Trimethylbenzene	U		12.4	50.0	100	02/01/2019 19:20	WG1231554
Vinyl acetate	U		64.5	500	100	02/01/2019 19:20	WG1231554
Vinyl chloride	155		11.8	50.0	100	02/01/2019 19:20	WG1231554
Xylenes, Total	U		31.6	150	100	02/01/2019 19:20	WG1231554
(S) Toluene-d8	105			80.0-120		02/01/2019 19:20	WG1231554
(S) Toluene-d8	101			80.0-120		02/03/2019 18:06	WG1231885
(S) Dibromofluoromethane	100			75.0-120		02/01/2019 19:20	WG1231554
(S) 4-Bromofluorobenzene	84.0			77.0-126		02/01/2019 19:20	WG1231554
(S) 4-Bromofluorobenzene	98.8			77.0-126		02/03/2019 18:06	WG1231885
(S) 1,2-Dichloroethane-d4	97.3			70.0-130		02/03/2019 18:06	WG1231885

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	400000		2710	20000	1	02/01/2019 16:54	WG1231115

Sample Narrative:

L1065152-04 WG1231115: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	58500		51.9	1000	1	01/30/2019 13:24	WG1230200
Nitrate	U		22.7	100	1	01/30/2019 13:24	WG1230200
Sulfate	3120	J	77.4	5000	1	01/30/2019 13:24	WG1230200

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	7020		102	1000	1	01/31/2019 14:01	WG1230357

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	1600		15.0	100	1	01/30/2019 21:38	WG1230569
Manganese	378		0.250	5.00	1	01/30/2019 21:38	WG1230569

Volatile Organic Compounds (GC) by Method NWTPHGX

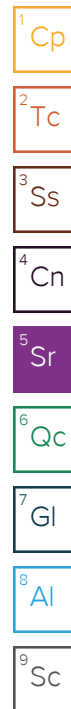
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/31/2019 05:24	WG1230592
(S) a,a,a-Trifluorotoluene(FID)	94.0			78.0-120		01/31/2019 05:24	WG1230592

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	8520		2.87	6.78	10	01/31/2019 15:16	WG1230299
Ethane	134		0.296	1.29	1	01/31/2019 14:41	WG1230299
Ethene	U		0.422	1.27	1	01/31/2019 14:41	WG1230299

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	02/01/2019 19:40	WG1231554
Acrylonitrile	U		0.873	5.00	1	02/01/2019 19:40	WG1231554
Benzene	0.141	J	0.0896	0.500	1	02/01/2019 19:40	WG1231554
Bromobenzene	U		0.133	0.500	1	02/01/2019 19:40	WG1231554
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 19:40	WG1231554
Bromochloromethane	U		0.145	0.500	1	02/01/2019 19:40	WG1231554
Bromoform	U		0.186	0.500	1	02/01/2019 19:40	WG1231554
Bromomethane	U		0.157	2.50	1	02/01/2019 19:40	WG1231554
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 19:40	WG1231554
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 19:40	WG1231554
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 19:40	WG1231554
Carbon disulfide	0.226	J	0.101	0.500	1	02/01/2019 19:40	WG1231554
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 19:40	WG1231554





Collected date/time: 01/29/19 12:45

L1065152

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	02/01/2019 19:40	WG1231554
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 19:40	WG1231554
Chloroethane	U		0.141	2.50	1	02/01/2019 19:40	WG1231554
Chloroform	U		0.0860	0.500	1	02/01/2019 19:40	WG1231554
Chloromethane	U		0.153	1.25	1	02/01/2019 19:40	WG1231554
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 19:40	WG1231554
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 19:40	WG1231554
1,2-Dibromo-3-Chloropropane	U	JO	0.325	2.50	1	02/01/2019 19:40	WG1231554
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 19:40	WG1231554
Dibromomethane	U		0.117	0.500	1	02/01/2019 19:40	WG1231554
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 19:40	WG1231554
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 19:40	WG1231554
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 19:40	WG1231554
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 19:40	WG1231554
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 19:40	WG1231554
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 19:40	WG1231554
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 19:40	WG1231554
cis-1,2-Dichloroethene	0.241	J	0.0933	0.500	1	02/01/2019 19:40	WG1231554
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 19:40	WG1231554
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 19:40	WG1231554
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 19:40	WG1231554
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 19:40	WG1231554
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 19:40	WG1231554
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 19:40	WG1231554
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 19:40	WG1231554
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 19:40	WG1231554
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 19:40	WG1231554
Ethylbenzene	U		0.158	0.500	1	02/01/2019 19:40	WG1231554
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 19:40	WG1231554
2-Hexanone	U		0.757	5.00	1	02/01/2019 19:40	WG1231554
n-Hexane	U		0.305	5.00	1	02/01/2019 19:40	WG1231554
Iodomethane	U		0.377	10.0	1	02/01/2019 19:40	WG1231554
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 19:40	WG1231554
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 19:40	WG1231554
2-Butanone (MEK)	U	JO	1.28	5.00	1	02/01/2019 19:40	WG1231554
Methylene Chloride	U		1.07	2.50	1	02/01/2019 19:40	WG1231554
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 19:40	WG1231554
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 19:40	WG1231554
Naphthalene	U	JO	0.174	2.50	1	02/01/2019 19:40	WG1231554
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 19:40	WG1231554
Styrene	U		0.117	0.500	1	02/01/2019 19:40	WG1231554
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 19:40	WG1231554
1,1,2,2-Tetrachloroethane	U	JO	0.130	0.500	1	02/01/2019 19:40	WG1231554
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/01/2019 19:40	WG1231554
Tetrachloroethene	U		0.199	0.500	1	02/03/2019 14:32	WG1231885
Toluene	U		0.412	0.500	1	02/01/2019 19:40	WG1231554
1,2,3-Trichlorobenzene	U	JO	0.164	0.500	1	02/01/2019 19:40	WG1231554
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 19:40	WG1231554
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 19:40	WG1231554
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 19:40	WG1231554
Trichloroethene	U		0.153	0.500	1	02/01/2019 19:40	WG1231554
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 19:40	WG1231554
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 19:40	WG1231554
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 19:40	WG1231554
1,2,3-Trimethylbenzene	U	JO J4	0.0739	0.500	1	02/01/2019 19:40	WG1231554
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 19:40	WG1231554

1 Cp

2 Tc

3 Ss

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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
Vinyl acetate	U		0.645	5.00	1	02/01/2019 19:40	WG1231554
Vinyl chloride	U		0.118	0.500	1	02/01/2019 19:40	WG1231554
Xylenes, Total	U		0.316	1.50	1	02/01/2019 19:40	WG1231554
(S) Toluene-d8	103			80.0-120		02/01/2019 19:40	WG1231554
(S) Toluene-d8	99.2			80.0-120		02/03/2019 14:32	WG1231885
(S) Dibromofluoromethane	102			75.0-120		02/01/2019 19:40	WG1231554
(S) 4-Bromofluorobenzene	83.0			77.0-126		02/01/2019 19:40	WG1231554
(S) 4-Bromofluorobenzene	97.9			77.0-126		02/03/2019 14:32	WG1231885
(S) 1,2-Dichloroethane-d4	94.6			70.0-130		02/03/2019 14:32	WG1231885

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	11900		3160	10000	100	01/31/2019 05:45	WG1230592
(S) a,a,a-Trifluorotoluene(FID)	96.2			78.0-120		01/31/2019 05:45	WG1230592

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	02/01/2019 20:00	WG1231554
Acrylonitrile	U		87.3	500	100	02/01/2019 20:00	WG1231554
Benzene	U		8.96	50.0	100	02/01/2019 20:00	WG1231554
Bromobenzene	U		13.3	50.0	100	02/01/2019 20:00	WG1231554
Bromodichloromethane	U		8.00	50.0	100	02/01/2019 20:00	WG1231554
Bromochloromethane	U		14.5	50.0	100	02/01/2019 20:00	WG1231554
Bromoform	U		18.6	50.0	100	02/01/2019 20:00	WG1231554
Bromomethane	U		15.7	250	100	02/01/2019 20:00	WG1231554
n-Butylbenzene	U		14.3	50.0	100	02/01/2019 20:00	WG1231554
sec-Butylbenzene	U		13.4	50.0	100	02/01/2019 20:00	WG1231554
tert-Butylbenzene	U		18.3	50.0	100	02/01/2019 20:00	WG1231554
Carbon disulfide	U		10.1	50.0	100	02/01/2019 20:00	WG1231554
Carbon tetrachloride	U		15.9	50.0	100	02/01/2019 20:00	WG1231554
Chlorobenzene	U		14.0	50.0	100	02/01/2019 20:00	WG1231554
Chlorodibromomethane	U		12.8	50.0	100	02/01/2019 20:00	WG1231554
Chloroethane	U		14.1	250	100	02/01/2019 20:00	WG1231554
Chloroform	U		8.60	50.0	100	02/01/2019 20:00	WG1231554
Chloromethane	U		15.3	125	100	02/01/2019 20:00	WG1231554
2-Chlorotoluene	U		11.1	50.0	100	02/01/2019 20:00	WG1231554
4-Chlorotoluene	U		9.72	50.0	100	02/01/2019 20:00	WG1231554
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	32.5	250	100	02/01/2019 20:00	WG1231554
1,2-Dibromoethane	U		19.3	50.0	100	02/01/2019 20:00	WG1231554
Dibromomethane	U		11.7	50.0	100	02/01/2019 20:00	WG1231554
1,2-Dichlorobenzene	U		10.1	50.0	100	02/01/2019 20:00	WG1231554
1,3-Dichlorobenzene	U		13.0	50.0	100	02/01/2019 20:00	WG1231554
1,4-Dichlorobenzene	U		12.1	50.0	100	02/01/2019 20:00	WG1231554
Dichlorodifluoromethane	U		12.7	250	100	02/01/2019 20:00	WG1231554
1,1-Dichloroethane	U		11.4	50.0	100	02/01/2019 20:00	WG1231554
1,2-Dichloroethane	U		10.8	50.0	100	02/01/2019 20:00	WG1231554
1,1-Dichloroethene	35.9	<u>J</u>	18.8	50.0	100	02/01/2019 20:00	WG1231554
cis-1,2-Dichloroethene	18100		9.33	50.0	100	02/01/2019 20:00	WG1231554
trans-1,2-Dichloroethene	36.7	<u>J</u>	15.2	50.0	100	02/01/2019 20:00	WG1231554
1,2-Dichloropropane	U		19.0	50.0	100	02/01/2019 20:00	WG1231554
1,1-Dichloropropene	U		12.8	50.0	100	02/01/2019 20:00	WG1231554
1,3-Dichloropropane	U		14.7	100	100	02/01/2019 20:00	WG1231554
cis-1,3-Dichloropropene	U		9.76	50.0	100	02/01/2019 20:00	WG1231554
trans-1,3-Dichloropropene	U		22.2	50.0	100	02/01/2019 20:00	WG1231554
trans-1,4-Dichloro-2-butene	U		25.7	500	100	02/01/2019 20:00	WG1231554
2,2-Dichloropropane	U		9.29	50.0	100	02/01/2019 20:00	WG1231554
Di-isopropyl ether	U		9.24	50.0	100	02/01/2019 20:00	WG1231554
Ethylbenzene	U		15.8	50.0	100	02/01/2019 20:00	WG1231554
Hexachloro-1,3-butadiene	U		15.7	100	100	02/01/2019 20:00	WG1231554
2-Hexanone	U		75.7	500	100	02/01/2019 20:00	WG1231554
n-Hexane	U		30.5	500	100	02/01/2019 20:00	WG1231554
Iodomethane	U		37.7	1000	100	02/01/2019 20:00	WG1231554
Isopropylbenzene	U		12.6	50.0	100	02/01/2019 20:00	WG1231554
p-Isopropyltoluene	U		13.8	50.0	100	02/01/2019 20:00	WG1231554
2-Butanone (MEK)	U	<u>JO</u>	128	500	100	02/01/2019 20:00	WG1231554

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		107	250	100	02/01/2019 20:00	WG1231554
4-Methyl-2-pentanone (MIBK)	U		82.3	500	100	02/01/2019 20:00	WG1231554
Methyl tert-butyl ether	U		10.2	50.0	100	02/01/2019 20:00	WG1231554
Naphthalene	U	<u>JO</u>	17.4	250	100	02/01/2019 20:00	WG1231554
n-Propylbenzene	U		16.2	50.0	100	02/01/2019 20:00	WG1231554
Styrene	U		11.7	50.0	100	02/01/2019 20:00	WG1231554
1,1,1,2-Tetrachloroethane	U		12.0	50.0	100	02/01/2019 20:00	WG1231554
1,1,2,2-Tetrachloroethane	U	<u>JO</u>	13.0	50.0	100	02/01/2019 20:00	WG1231554
1,1,2-Trichlorotrifluoroethane	U		16.4	50.0	100	02/01/2019 20:00	WG1231554
Tetrachloroethene	303		19.9	50.0	100	02/01/2019 20:00	WG1231554
Toluene	U		41.2	50.0	100	02/01/2019 20:00	WG1231554
1,2,3-Trichlorobenzene	U	<u>JO</u>	16.4	50.0	100	02/01/2019 20:00	WG1231554
1,2,4-Trichlorobenzene	U		35.5	50.0	100	02/01/2019 20:00	WG1231554
1,1,1-Trichloroethane	U		9.40	50.0	100	02/01/2019 20:00	WG1231554
1,1,2-Trichloroethane	U		18.6	50.0	100	02/01/2019 20:00	WG1231554
Trichloroethene	548		15.3	50.0	100	02/01/2019 20:00	WG1231554
Trichlorofluoromethane	U		13.0	250	100	02/01/2019 20:00	WG1231554
1,2,3-Trichloropropane	U		24.7	250	100	02/01/2019 20:00	WG1231554
1,2,4-Trimethylbenzene	U		12.3	50.0	100	02/01/2019 20:00	WG1231554
1,2,3-Trimethylbenzene	U	<u>JO J4</u>	7.39	50.0	100	02/01/2019 20:00	WG1231554
1,3,5-Trimethylbenzene	U		12.4	50.0	100	02/01/2019 20:00	WG1231554
Vinyl acetate	U		64.5	500	100	02/01/2019 20:00	WG1231554
Vinyl chloride	1370		11.8	50.0	100	02/01/2019 20:00	WG1231554
Xylenes, Total	U		31.6	150	100	02/01/2019 20:00	WG1231554
(S) Toluene-d8	106			80.0-120		02/01/2019 20:00	WG1231554
(S) Dibromofluoromethane	100			75.0-120		02/01/2019 20:00	WG1231554
(S) 4-Bromofluorobenzene	84.0			77.0-126		02/01/2019 20:00	WG1231554

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ 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
Acetone	U		1.05	25.0	1	02/01/2019 17:19	WG1231554
Acrylonitrile	U		0.873	5.00	1	02/01/2019 17:19	WG1231554
Benzene	U		0.0896	0.500	1	02/01/2019 17:19	WG1231554
Bromobenzene	U		0.133	0.500	1	02/01/2019 17:19	WG1231554
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 17:19	WG1231554
Bromochloromethane	U		0.145	0.500	1	02/01/2019 17:19	WG1231554
Bromoform	U		0.186	0.500	1	02/01/2019 17:19	WG1231554
Bromomethane	U		0.157	2.50	1	02/01/2019 17:19	WG1231554
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 17:19	WG1231554
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 17:19	WG1231554
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 17:19	WG1231554
Carbon disulfide	U		0.101	0.500	1	02/01/2019 17:19	WG1231554
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 17:19	WG1231554
Chlorobenzene	U		0.140	0.500	1	02/01/2019 17:19	WG1231554
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 17:19	WG1231554
Chloroethane	U		0.141	2.50	1	02/01/2019 17:19	WG1231554
Chloroform	U		0.0860	0.500	1	02/01/2019 17:19	WG1231554
Chloromethane	U		0.153	1.25	1	02/01/2019 17:19	WG1231554
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 17:19	WG1231554
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 17:19	WG1231554
1,2-Dibromo-3-Chloropropane	U	JO	0.325	2.50	1	02/01/2019 17:19	WG1231554
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 17:19	WG1231554
Dibromomethane	U		0.117	0.500	1	02/01/2019 17:19	WG1231554
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 17:19	WG1231554
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 17:19	WG1231554
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 17:19	WG1231554
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 17:19	WG1231554
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 17:19	WG1231554
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 17:19	WG1231554
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 17:19	WG1231554
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/01/2019 17:19	WG1231554
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 17:19	WG1231554
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 17:19	WG1231554
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 17:19	WG1231554
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 17:19	WG1231554
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 17:19	WG1231554
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 17:19	WG1231554
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 17:19	WG1231554
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 17:19	WG1231554
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 17:19	WG1231554
Ethylbenzene	U		0.158	0.500	1	02/01/2019 17:19	WG1231554
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 17:19	WG1231554
2-Hexanone	U		0.757	5.00	1	02/01/2019 17:19	WG1231554
n-Hexane	U		0.305	5.00	1	02/01/2019 17:19	WG1231554
Iodomethane	U		0.377	10.0	1	02/01/2019 17:19	WG1231554
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 17:19	WG1231554
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 17:19	WG1231554
2-Butanone (MEK)	U	JO	1.28	5.00	1	02/01/2019 17:19	WG1231554
Methylene Chloride	U		1.07	2.50	1	02/01/2019 17:19	WG1231554
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 17:19	WG1231554
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 17:19	WG1231554
Naphthalene	U	JO	0.174	2.50	1	02/01/2019 17:19	WG1231554
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 17:19	WG1231554
Styrene	U		0.117	0.500	1	02/01/2019 17:19	WG1231554
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 17:19	WG1231554
1,1,2,2-Tetrachloroethane	U	JO	0.130	0.500	1	02/01/2019 17:19	WG1231554

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	02/01/2019 17:19	WG1231554
Tetrachloroethene	U		0.199	0.500	1	02/01/2019 17:19	WG1231554
Toluene	1.29		0.412	0.500	1	02/01/2019 17:19	WG1231554
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.164	0.500	1	02/01/2019 17:19	WG1231554
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 17:19	WG1231554
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 17:19	WG1231554
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 17:19	WG1231554
Trichloroethene	U		0.153	0.500	1	02/01/2019 17:19	WG1231554
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 17:19	WG1231554
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 17:19	WG1231554
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 17:19	WG1231554
1,2,3-Trimethylbenzene	U	<u>JO J4</u>	0.0739	0.500	1	02/01/2019 17:19	WG1231554
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 17:19	WG1231554
Vinyl acetate	U		0.645	5.00	1	02/01/2019 17:19	WG1231554
Vinyl chloride	U		0.118	0.500	1	02/01/2019 17:19	WG1231554
Xylenes, Total	U		0.316	1.50	1	02/01/2019 17:19	WG1231554
(S) Toluene-d8	109			80.0-120		02/01/2019 17:19	WG1231554
(S) Dibromofluoromethane	99.0			75.0-120		02/01/2019 17:19	WG1231554
(S) 4-Bromofluorobenzene	84.0			77.0-126		02/01/2019 17:19	WG1231554

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc



Method Blank (MB)

(MB) R3380663-1 02/01/19 14:49

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Alkalinity	3150	⌵	2710	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1062521-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1062521-01 02/01/19 15:41 • (DUP) R3380663-2 02/01/19 15:49

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	ND	0.000	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 HEADSPACE

DUP: Endpoint pH 4.5

L1065546-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1065546-05 02/01/19 18:14 • (DUP) R3380663-4 02/01/19 18:21

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	160000	160000	1	0.00388		20

Sample Narrative:

OS: Endpoint pH 4.5 HEADSPACE

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3380663-3 02/01/19 16:38

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Alkalinity	100000	98800	98.8	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3380151-1 01/30/19 09:43

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Chloride	U		51.9	1000
Nitrate	U		22.7	100
Sulfate	U		77.4	5000

L1065152-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1065152-04 01/30/19 13:24 • (DUP) R3380151-3 01/30/19 14:12

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	58500	58500	1	0.0667		15
Nitrate	U	0.000	1	0.000		15
Sulfate	3120	3170	1	1.39	J	15

L1065170-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1065170-03 01/30/19 19:46 • (DUP) R3380151-5 01/30/19 20:34

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	11900	12000	1	0.450		15
Nitrate	U	0.000	1	0.000		15
Sulfate	12000	12000	1	0.210		15

Laboratory Control Sample (LCS)

(LCS) R3380151-2 01/30/19 09:59

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Chloride	40000	40500	101	80.0-120	
Nitrate	8000	8240	103	80.0-120	
Sulfate	40000	41300	103	80.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



L1065152-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1065152-04 01/30/19 13:24 • (MS) R3380151-4 01/30/19 14:28

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	58500	106000	94.5	1	80.0-120	E
Nitrate	5000	U	4820	96.4	1	80.0-120	
Sulfate	50000	3120	51900	97.6	1	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3380513-1 01/31/19 10:37

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	232	⬇	102	1000

¹Cp

²Tc

³Ss

L1065152-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1065152-02 01/31/19 13:19 • (DUP) R3380513-3 01/31/19 13:39

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC	4800	4900	1	2.08		20

⁴Cn

⁵Sr

⁶Qc

Laboratory Control Sample (LCS)

(LCS) R3380513-2 01/31/19 11:59

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC	75000	77100	103	85.0-115	

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3380058-1 01/30/19 21:01				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Iron	U		15.0	100
Manganese	U		0.250	5.00

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) R3380058-2 01/30/19 21:06 • (LCSD) R3380058-3 01/30/19 21:10										
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
Iron	5000	4780	4740	95.6	94.9	80.0-120			0.783	20
Manganese	50.0	47.6	47.7	95.3	95.4	80.0-120			0.102	20

L1065266-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1065266-04 01/30/19 21:15 • (MS) R3380058-5 01/30/19 21:24 • (MSD) R3380058-6 01/30/19 21:29												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Iron	5000	2590	7170	7160	91.7	91.5	1	75.0-125			0.106	20
Manganese	50.0	571	611	620	79.7	97.5	1	75.0-125			1.45	20

Method Blank (MB)

(MB) R3380291-2 01/30/19 23:35

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)	94.9			78.0-120

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) R3380291-1 01/30/19 22:31 • (LCSD) R3380291-5 01/31/19 07:32

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 %
Gasoline Range Organics-NWTPH	5500	5710	5420	104	98.5	70.0-124			5.17	20
(S) a,a,a-Trifluorotoluene(FID)				113	111	78.0-120				

L1064973-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1064973-01 01/31/19 06:06 • (MS) R3380291-3 01/31/19 06:28 • (MSD) R3380291-4 01/31/19 06:49

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	3980	3810	72.3	69.3	1	10.0-155			4.26	21
(S) a,a,a-Trifluorotoluene(FID)					107	104		78.0-120				



Method Blank (MB)

(MB) R3380249-1 01/31/19 13:20

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1065061-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1065061-01 01/31/19 13:52 • (DUP) R3380249-2 01/31/19 14:11

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP RPD Limits %
Methane	U	0.000	1	0.000	20
Ethane	U	0.000	1	0.000	20
Ethene	U	0.000	1	0.000	20

L1065152-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1065152-02 01/31/19 14:20 • (DUP) R3380249-5 01/31/19 15:19

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP RPD Limits %
Methane	276	276	1	0.0459	20
Ethane	U	0.000	1	0.000	20
Ethene	U	0.000	1	0.000	20

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

(LCS) R3380249-6 01/31/19 15:28 • (LCSD) R3380249-7 01/31/19 15:31

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 %
Methane	67.8	71.7	74.0	106	109	85.0-115			3.12	20
Ethane	129	113	117	87.5	90.6	85.0-115			3.41	20
Ethene	127	115	119	90.8	93.7	85.0-115			3.11	20



L1065170-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1065170-03 01/31/19 14:14 • (MS) R3380249-3 01/31/19 14:53 • (MSD) R3380249-4 01/31/19 14:56

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 %
Methane	67.8	2250	2320	2290	96.1	54.2	1	85.0-115		V	1.23	20
Ethane	129	U	114	122	88.4	94.4	1	85.0-115			6.52	20
Ethene	127	U	117	125	92.2	98.5	1	85.0-115			6.64	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3380799-3 02/01/19 16:24

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	0.160	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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3380799-3 02/01/19 16:24

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	0.218	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	97.0			75.0-120
(S) 4-Bromofluorobenzene	85.0			77.0-126

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) R3380799-1 02/01/19 15:24 • (LCSD) R3380799-2 02/01/19 15:44

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	125	106	108	84.8	86.6	19.0-160			2.11	27
Acrylonitrile	125	106	109	85.1	87.3	55.0-149			2.57	20
Benzene	25.0	22.6	22.3	90.3	89.2	70.0-123			1.21	20
Bromobenzene	25.0	20.7	21.0	82.6	84.2	73.0-121			1.86	20
Bromodichloromethane	25.0	25.1	24.9	101	99.5	75.0-120			1.04	20
Bromochloromethane	25.0	24.4	24.1	97.6	96.3	76.0-122			1.37	20
Bromoform	25.0	21.2	21.6	84.8	86.6	68.0-132			2.09	20
Bromomethane	25.0	27.9	27.8	111	111	10.0-160			0.0744	25
n-Butylbenzene	25.0	24.9	25.4	99.6	101	73.0-125			1.83	20
sec-Butylbenzene	25.0	25.6	25.9	102	104	75.0-125			1.25	20
tert-Butylbenzene	25.0	26.2	26.6	105	107	76.0-124			1.63	20
Carbon disulfide	25.0	20.9	21.6	83.5	86.6	61.0-128			3.59	20
Carbon tetrachloride	25.0	21.9	22.0	87.6	87.9	68.0-126			0.277	20
Chlorobenzene	25.0	26.5	26.5	106	106	80.0-121			0.0401	20
Chlorodibromomethane	25.0	24.7	24.9	98.8	99.6	77.0-125			0.864	20
Chloroethane	25.0	25.2	23.7	101	94.7	47.0-150			6.31	20
Chloroform	25.0	22.3	22.8	89.3	91.2	73.0-120			2.13	20
Chloromethane	25.0	30.7	31.8	123	127	41.0-142			3.49	20
2-Chlorotoluene	25.0	23.4	24.2	93.5	96.6	76.0-123			3.31	20
4-Chlorotoluene	25.0	24.7	24.9	98.8	99.5	75.0-122			0.715	20
1,2-Dibromo-3-Chloropropane	25.0	18.4	19.5	73.7	77.9	58.0-134			5.52	20
1,2-Dibromoethane	25.0	24.4	24.6	97.6	98.6	80.0-122			0.969	20
Dibromomethane	25.0	24.4	24.4	97.4	97.8	80.0-120			0.329	20
1,2-Dichlorobenzene	25.0	26.0	26.8	104	107	79.0-121			3.31	20
1,3-Dichlorobenzene	25.0	26.3	26.1	105	105	79.0-120			0.580	20
1,4-Dichlorobenzene	25.0	23.2	24.3	92.7	97.3	79.0-120			4.90	20
Dichlorodifluoromethane	25.0	33.1	33.6	132	134	51.0-149			1.39	20
1,1-Dichloroethane	25.0	23.9	24.3	95.6	97.1	70.0-126			1.59	20
1,2-Dichloroethane	25.0	23.7	23.3	94.6	93.1	70.0-128			1.58	20
1,1-Dichloroethene	25.0	23.5	22.8	93.9	91.2	71.0-124			2.98	20
cis-1,2-Dichloroethene	25.0	23.6	24.0	94.4	96.0	73.0-120			1.64	20
trans-1,2-Dichloroethene	25.0	23.1	23.1	92.4	92.5	73.0-120			0.0251	20
1,2-Dichloropropane	25.0	26.2	25.1	105	100	77.0-125			4.10	20
1,1-Dichloropropene	25.0	22.3	22.4	89.2	89.7	74.0-126			0.516	20
1,3-Dichloropropane	25.0	25.5	25.2	102	101	80.0-120			1.43	20
cis-1,3-Dichloropropene	25.0	26.0	25.6	104	102	80.0-123			1.63	20
trans-1,3-Dichloropropene	25.0	27.4	26.7	109	107	78.0-124			2.29	20
trans-1,4-Dichloro-2-butene	25.0	20.6	20.5	82.5	82.1	33.0-144			0.424	20
2,2-Dichloropropane	25.0	29.1	29.9	117	120	58.0-130			2.58	20
Di-isopropyl ether	25.0	25.0	25.1	100	100	58.0-138			0.393	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R3380799-1 02/01/19 15:24 • (LCSD) R3380799-2 02/01/19 15:44

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Ethylbenzene	25.0	24.7	24.9	98.9	99.4	79.0-123			0.538	20
Hexachloro-1,3-butadiene	25.0	24.3	24.7	97.3	98.6	54.0-138			1.28	20
2-Hexanone	125	111	111	88.9	88.9	67.0-149			0.00333	20
n-Hexane	25.0	23.3	23.6	93.2	94.2	57.0-133			1.04	20
Iodomethane	125	116	118	92.9	94.0	33.0-147			1.19	26
Isopropylbenzene	25.0	22.6	22.6	90.6	90.2	76.0-127			0.396	20
p-Isopropyltoluene	25.0	26.0	26.8	104	107	76.0-125			2.85	20
2-Butanone (MEK)	125	98.2	104	78.5	83.4	44.0-160			6.02	20
Methylene Chloride	25.0	22.2	21.9	88.6	87.8	67.0-120			0.997	20
4-Methyl-2-pentanone (MIBK)	125	112	114	89.5	91.0	68.0-142			1.64	20
Methyl tert-butyl ether	25.0	22.6	23.1	90.4	92.3	68.0-125			2.03	20
Naphthalene	25.0	15.4	15.9	61.7	63.7	54.0-135			3.26	20
n-Propylbenzene	25.0	22.1	22.5	88.3	89.8	77.0-124			1.75	20
Styrene	25.0	23.4	23.4	93.4	93.7	73.0-130			0.346	20
1,1,1,2-Tetrachloroethane	25.0	28.0	28.5	112	114	75.0-125			1.93	20
1,1,2,2-Tetrachloroethane	25.0	19.0	20.0	75.9	80.1	65.0-130			5.38	20
1,1,2-Trichlorotrifluoroethane	25.0	23.1	22.8	92.4	91.3	69.0-132			1.21	20
Tetrachloroethene	25.0	27.5	26.7	110	107	72.0-132			2.81	20
Toluene	25.0	25.5	25.2	102	101	79.0-120			0.946	20
1,2,3-Trichlorobenzene	25.0	17.5	17.9	70.0	71.7	50.0-138			2.29	20
1,2,4-Trichlorobenzene	25.0	23.5	23.5	94.0	94.2	57.0-137			0.249	20
1,1,1-Trichloroethane	25.0	24.4	24.8	97.8	99.1	73.0-124			1.38	20
1,1,2-Trichloroethane	25.0	25.4	24.9	101	99.6	80.0-120			1.83	20
Trichloroethene	25.0	25.2	24.7	101	98.7	78.0-124			2.11	20
Trichlorofluoromethane	25.0	25.7	25.6	103	102	59.0-147			0.632	20
1,2,3-Trichloropropane	25.0	21.9	22.2	87.4	88.7	73.0-130			1.48	20
1,2,4-Trimethylbenzene	25.0	24.5	25.7	98.0	103	76.0-121			4.71	20
1,2,3-Trimethylbenzene	25.0	18.5	18.9	74.0	75.5	77.0-120	J4	J4	2.02	20
1,3,5-Trimethylbenzene	25.0	23.4	24.6	93.8	98.4	76.0-122			4.82	20
Vinyl acetate	125	144	144	115	115	11.0-160			0.0277	20
Vinyl chloride	25.0	26.6	27.5	106	110	67.0-131			3.49	20
Xylenes, Total	75.0	79.4	78.7	106	105	79.0-123			0.886	20
(S) Toluene-d8				106	105	80.0-120				
(S) Dibromofluoromethane				96.0	98.0	75.0-120				
(S) 4-Bromofluorobenzene				86.0	87.0	77.0-126				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3381019-3 02/03/19 11:38

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Tetrachloroethene	U		0.199	0.500
(S) Toluene-d8	103			80.0-120
(S) 4-Bromofluorobenzene	100			77.0-126
(S) 1,2-Dichloroethane-d4	98.3			70.0-130

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

(LCS) R3381019-1 02/03/19 10:40 • (LCSD) R3381019-2 02/03/19 10:59

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 %
Tetrachloroethene	25.0	24.9	24.6	99.6	98.4	72.0-132			1.25	20
(S) Toluene-d8				99.8	102	80.0-120				
(S) 4-Bromofluorobenzene				98.1	100	77.0-126				
(S) 1,2-Dichloroethane-d4				93.8	104	70.0-130				

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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
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, the sample preparation volume or weight values differ from the standard, 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.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
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
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
J4	The associated batch QC was outside the established quality control range for accuracy.
V	The sample concentration is too high to evaluate accurate spike recoveries.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Pace National 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.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

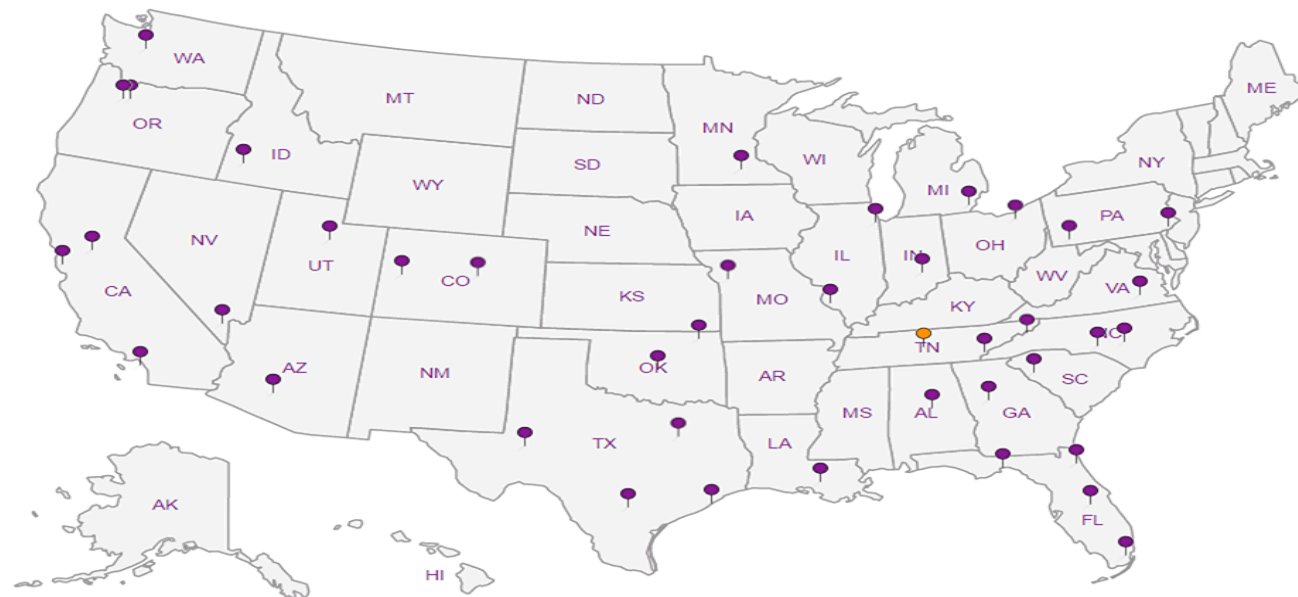
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National 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. Pace National 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:
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;
bhaldeman@pesenv.com;

KSPRINGSSTEAD@PESENV.COM
KVIK@PESENV.COM

Project
Description: American Linen

City/State
Collected: Seattle, WA

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

Client Project #
1413.001.05.601

Lab Project #
PESENVSWA-ALP

Collected by (print):
KOVAS Zygas

Site/Facility ID #
American Linen

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

No.
of
Cntrs

Immediately
Packed on Ice: N Y X

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NO3,SO4,Cl* 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM (RSK175LL) 40mlAmb-HCl	NWTPHGX 40mlAmb HCl	TOC 250mlAmb-HCl	Total Fe Mn 6020 250mlHDPE-HNO3	VOCs (8260LLC) 40mlAmb-HCl			
MW-131-012919	Grab	GW	49	01/29/19	1020	6				X			X			
MW-145-012919	Grab	GW	75		1020	12	X	X	X	X	X	X	X			
MW-149-012919	Grab	GW	40		1205	6	X	X	X	X	X	X	X			
MW-143-012919	Grab	GW	75		1245	12	X	X	X	X	X	X	X			
MW-150-012919	Grab	GW	54		1305	6				X			X			
Trip Blank-012919	—	GW	—	—	—	1							X			
		GW														
		GW														
		GW														
		GW														

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

Remarks:

Samples returned via:
UPS ☒ FedEx ☐ Courier ☐

Tracking # 7466 1463 9169

pH Temp

Flow Other

Relinquished by: (Signature)

Date: 01/29/19 Time: 16:00

Received by: (Signature)

Trip Blank Received: Yes/No
HCl/MeOH
TBR

Relinquished by: (Signature)

Date: Time:

Received by: (Signature)

Temp: °C Bottles Received: 0.2-10.1 = 0.3% 48

Relinquished by: (Signature)

Date: Time:

Received for lab by: (Signature)

Date: 1/30/19 Time: 0845

If preservation required by Login: Date/Time

Hold: Condition: NCF 1 OK

Analysis / Container / Preservative

Pres
Chk

<2 <2

Chain of Custody Page 1 of 1



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



L# L1665152
C184

Account: PESENVSWA

Template: T143845

Prelogin: P685358

TSR: 110 - Brian Ford

PB: 12/13/18 mm8

Shipped Via: FedEx Ground

Remarks Sample # (Lab only)

Sample Receipt Checklist

COC Seal Present/Intact: ☒ N
COC Signed/Accurate: ☒ N
Bottles arrive intact: ☒ N
Correct bottles used: ☒ N
Sufficient volume sent: ☒ N
If Applicable
Voh Zero Headspace: ☒ N
Preservation Correct/Checked: ☒ N

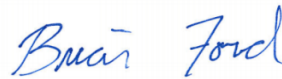
RAD

February 07, 2019

PES Environmental, Inc.- WA

Sample Delivery Group: L1065595
Samples Received: 01/31/2019
Project Number: 1413.001.05.305
Description: American Linen
Site: AMERICAN LINEN
Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford
Project Manager

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 Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Sr: Sample Results	6
MW-107-013019 L1065595-01	6
MW-116-013019 L1065595-02	9
MW-113-013019 L1065595-03	11
EQ-013019 L1065595-04	13
MW-115-013019 L1065595-05	16
MW-141-013019 L1065595-06	18
TRIP BLANK-013019 L1065595-08	20
Qc: Quality Control Summary	22
Wet Chemistry by Method 2320 B-2011	22
Wet Chemistry by Method 9056A	23
Wet Chemistry by Method 9060A	25
Metals (ICPMS) by Method 6020B	26
Volatile Organic Compounds (GC) by Method NWTPHGX	27
Volatile Organic Compounds (GC) by Method RSK175	28
Volatile Organic Compounds (GC/MS) by Method 8260C	30
Gl: Glossary of Terms	35
Al: Accreditations & Locations	36
Sc: Sample Chain of Custody	37



SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-107-013019 L1065595-01 GW

			Collected by	Collected date/time	Received date/time
			Ben Hecht	01/30/19 09:05	01/31/19 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1232234	1	02/04/19 17:55	02/04/19 17:55	GB
Wet Chemistry by Method 9056A	WG1230731	1	01/31/19 21:06	01/31/19 21:06	ELN
Wet Chemistry by Method 9060A	WG1230357	1	01/31/19 22:54	01/31/19 22:54	EEM
Metals (ICPMS) by Method 6020B	WG1231148	1	02/01/19 09:23	02/01/19 14:54	JPD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1231257	1	02/01/19 20:27	02/01/19 20:27	ACG
Volatile Organic Compounds (GC) by Method RSK175	WG1231081	1	02/01/19 13:16	02/01/19 13:16	MEL
Volatile Organic Compounds (GC) by Method RSK175	WG1231475	10	02/01/19 14:47	02/01/19 14:47	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231554	1	02/01/19 20:20	02/01/19 20:20	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231885	25	02/03/19 18:25	02/03/19 18:25	ACG

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-116-013019 L1065595-02 GW

			Collected by	Collected date/time	Received date/time
			Ben Hecht	01/30/19 10:15	01/31/19 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231554	1	02/01/19 20:40	02/01/19 20:40	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231885	1	02/03/19 14:52	02/03/19 14:52	ACG

MW-113-013019 L1065595-03 GW

			Collected by	Collected date/time	Received date/time
			Ben Hecht	01/30/19 10:55	01/31/19 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231554	5	02/01/19 21:01	02/01/19 21:01	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231885	200	02/03/19 18:44	02/03/19 18:44	ACG

EQ-013019 L1065595-04 GW

			Collected by	Collected date/time	Received date/time
			Ben Hecht	01/30/19 12:30	01/31/19 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1232234	1	02/04/19 18:11	02/04/19 18:11	GB
Wet Chemistry by Method 9056A	WG1230731	1	01/31/19 21:22	01/31/19 21:22	ELN
Wet Chemistry by Method 9060A	WG1230357	1	01/31/19 23:16	01/31/19 23:16	EEM
Metals (ICPMS) by Method 6020B	WG1231148	1	02/01/19 09:23	02/01/19 14:59	JPD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1231257	1	02/01/19 20:49	02/01/19 20:49	ACG
Volatile Organic Compounds (GC) by Method RSK175	WG1231475	1	02/01/19 14:38	02/01/19 14:38	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231554	1	02/01/19 21:21	02/01/19 21:21	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231885	1	02/03/19 15:11	02/03/19 15:11	ACG

MW-115-013019 L1065595-05 GW

			Collected by	Collected date/time	Received date/time
			Ben Hecht	01/30/19 12:45	01/31/19 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231554	1	02/01/19 21:41	02/01/19 21:41	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231885	1	02/03/19 15:30	02/03/19 15:30	ACG

MW-141-013019 L1065595-06 GW

			Collected by	Collected date/time	Received date/time
			Ben Hecht	01/30/19 14:00	01/31/19 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1231257	1	02/01/19 21:11	02/01/19 21:11	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231554	1	02/01/19 22:01	02/01/19 22:01	JAH

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

1413.001.05.305

SDG:

L1065595

DATE/TIME:

02/07/19 15:00

PAGE:

3 of 39



TRIP BLANK-013019 L1065595-08 GW

Collected by Ben Hecht
Collected date/time 01/30/19 00:00
Received date/time 01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231554	1	02/01/19 17:39	02/01/19 17:39	JAH

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, 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
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	564000		2710	20000	1	02/04/2019 17:55	WG1232234

Sample Narrative:

L1065595-01 WG1232234: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	49200		51.9	1000	1	01/31/2019 21:06	WG1230731
Nitrate	U		22.7	100	1	01/31/2019 21:06	WG1230731
Sulfate	37100		77.4	5000	1	01/31/2019 21:06	WG1230731

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	14500		102	1000	1	01/31/2019 22:54	WG1230357

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	2350		15.0	100	1	02/01/2019 14:54	WG1231148
Manganese	947		0.250	5.00	1	02/01/2019 14:54	WG1231148

Volatile Organic Compounds (GC) by Method NWTPHGX

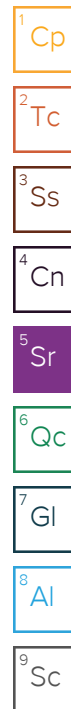
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	663		31.6	100	1	02/01/2019 20:27	WG1231257
(S) a,a,a-Trifluorotoluene(FID)	108			78.0-120		02/01/2019 20:27	WG1231257

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	14500		2.87	6.78	10	02/01/2019 14:47	WG1231475
Ethane	89.2		0.296	1.29	1	02/01/2019 13:16	WG1231081
Ethene	70.3		0.422	1.27	1	02/01/2019 13:16	WG1231081

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	02/01/2019 20:20	WG1231554
Acrylonitrile	U		0.873	5.00	1	02/01/2019 20:20	WG1231554
Benzene	0.215	J	0.0896	0.500	1	02/01/2019 20:20	WG1231554
Bromobenzene	U		0.133	0.500	1	02/01/2019 20:20	WG1231554
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 20:20	WG1231554
Bromochloromethane	U		0.145	0.500	1	02/01/2019 20:20	WG1231554
Bromoform	U		0.186	0.500	1	02/01/2019 20:20	WG1231554
Bromomethane	U		0.157	2.50	1	02/01/2019 20:20	WG1231554
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 20:20	WG1231554
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 20:20	WG1231554
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 20:20	WG1231554
Carbon disulfide	U		0.101	0.500	1	02/01/2019 20:20	WG1231554
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 20:20	WG1231554





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	02/01/2019 20:20	WG1231554
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 20:20	WG1231554
Chloroethane	3.52		0.141	2.50	1	02/01/2019 20:20	WG1231554
Chloroform	U		0.0860	0.500	1	02/01/2019 20:20	WG1231554
Chloromethane	U		0.153	1.25	1	02/01/2019 20:20	WG1231554
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 20:20	WG1231554
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 20:20	WG1231554
1,2-Dibromo-3-Chloropropane	U	JO	0.325	2.50	1	02/01/2019 20:20	WG1231554
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 20:20	WG1231554
Dibromomethane	U		0.117	0.500	1	02/01/2019 20:20	WG1231554
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 20:20	WG1231554
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 20:20	WG1231554
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 20:20	WG1231554
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 20:20	WG1231554
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 20:20	WG1231554
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 20:20	WG1231554
1,1-Dichloroethene	9.01		0.188	0.500	1	02/01/2019 20:20	WG1231554
cis-1,2-Dichloroethene	1130		2.33	12.5	25	02/03/2019 18:25	WG1231885
trans-1,2-Dichloroethene	14.4		0.152	0.500	1	02/01/2019 20:20	WG1231554
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 20:20	WG1231554
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 20:20	WG1231554
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 20:20	WG1231554
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 20:20	WG1231554
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 20:20	WG1231554
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 20:20	WG1231554
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 20:20	WG1231554
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 20:20	WG1231554
Ethylbenzene	U		0.158	0.500	1	02/01/2019 20:20	WG1231554
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 20:20	WG1231554
2-Hexanone	U		0.757	5.00	1	02/01/2019 20:20	WG1231554
n-Hexane	U		0.305	5.00	1	02/01/2019 20:20	WG1231554
Iodomethane	U		0.377	10.0	1	02/01/2019 20:20	WG1231554
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 20:20	WG1231554
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 20:20	WG1231554
2-Butanone (MEK)	U	JO	1.28	5.00	1	02/01/2019 20:20	WG1231554
Methylene Chloride	U		1.07	2.50	1	02/01/2019 20:20	WG1231554
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 20:20	WG1231554
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 20:20	WG1231554
Naphthalene	U	JO	0.174	2.50	1	02/01/2019 20:20	WG1231554
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 20:20	WG1231554
Styrene	U		0.117	0.500	1	02/01/2019 20:20	WG1231554
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 20:20	WG1231554
1,1,2,2-Tetrachloroethane	U	JO	0.130	0.500	1	02/01/2019 20:20	WG1231554
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/01/2019 20:20	WG1231554
Tetrachloroethene	U		0.199	0.500	1	02/01/2019 20:20	WG1231554
Toluene	0.715		0.412	0.500	1	02/01/2019 20:20	WG1231554
1,2,3-Trichlorobenzene	U	JO	0.164	0.500	1	02/01/2019 20:20	WG1231554
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 20:20	WG1231554
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 20:20	WG1231554
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 20:20	WG1231554
Trichloroethene	41.1		0.153	0.500	1	02/01/2019 20:20	WG1231554
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 20:20	WG1231554
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 20:20	WG1231554
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 20:20	WG1231554
1,2,3-Trimethylbenzene	U	JO J4	0.0739	0.500	1	02/01/2019 20:20	WG1231554
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 20:20	WG1231554

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	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Vinyl acetate	U		0.645	5.00	1	02/01/2019 20:20	WG1231554
Vinyl chloride	474		2.95	12.5	25	02/03/2019 18:25	WG1231885
Xylenes, Total	U		0.316	1.50	1	02/01/2019 20:20	WG1231554
(S) Toluene-d8	104			80.0-120		02/01/2019 20:20	WG1231554
(S) Toluene-d8	100			80.0-120		02/03/2019 18:25	WG1231885
(S) Dibromofluoromethane	98.0			75.0-120		02/01/2019 20:20	WG1231554
(S) 4-Bromofluorobenzene	84.0			77.0-126		02/01/2019 20:20	WG1231554
(S) 4-Bromofluorobenzene	99.2			77.0-126		02/03/2019 18:25	WG1231885
(S) 1,2-Dichloroethane-d4	89.5			70.0-130		02/03/2019 18:25	WG1231885

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
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	
Acetone	U		1.05	25.0	1	02/01/2019 20:40	WG1231554
Acrylonitrile	U		0.873	5.00	1	02/01/2019 20:40	WG1231554
Benzene	U		0.0896	0.500	1	02/01/2019 20:40	WG1231554
Bromobenzene	U		0.133	0.500	1	02/01/2019 20:40	WG1231554
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 20:40	WG1231554
Bromochloromethane	U		0.145	0.500	1	02/01/2019 20:40	WG1231554
Bromoform	U		0.186	0.500	1	02/01/2019 20:40	WG1231554
Bromomethane	U		0.157	2.50	1	02/01/2019 20:40	WG1231554
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 20:40	WG1231554
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 20:40	WG1231554
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 20:40	WG1231554
Carbon disulfide	U		0.101	0.500	1	02/01/2019 20:40	WG1231554
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 20:40	WG1231554
Chlorobenzene	U		0.140	0.500	1	02/01/2019 20:40	WG1231554
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 20:40	WG1231554
Chloroethane	U		0.141	2.50	1	02/01/2019 20:40	WG1231554
Chloroform	U		0.0860	0.500	1	02/01/2019 20:40	WG1231554
Chloromethane	U		0.153	1.25	1	02/01/2019 20:40	WG1231554
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 20:40	WG1231554
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 20:40	WG1231554
1,2-Dibromo-3-Chloropropane	U	JO	0.325	2.50	1	02/01/2019 20:40	WG1231554
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 20:40	WG1231554
Dibromomethane	U		0.117	0.500	1	02/01/2019 20:40	WG1231554
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 20:40	WG1231554
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 20:40	WG1231554
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 20:40	WG1231554
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 20:40	WG1231554
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 20:40	WG1231554
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 20:40	WG1231554
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 20:40	WG1231554
cis-1,2-Dichloroethene	0.655		0.0933	0.500	1	02/01/2019 20:40	WG1231554
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 20:40	WG1231554
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 20:40	WG1231554
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 20:40	WG1231554
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 20:40	WG1231554
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 20:40	WG1231554
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 20:40	WG1231554
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 20:40	WG1231554
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 20:40	WG1231554
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 20:40	WG1231554
Ethylbenzene	U		0.158	0.500	1	02/01/2019 20:40	WG1231554
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 20:40	WG1231554
2-Hexanone	U		0.757	5.00	1	02/01/2019 20:40	WG1231554
n-Hexane	U		0.305	5.00	1	02/01/2019 20:40	WG1231554
Iodomethane	U		0.377	10.0	1	02/01/2019 20:40	WG1231554
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 20:40	WG1231554
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 20:40	WG1231554
2-Butanone (MEK)	U	JO	1.28	5.00	1	02/01/2019 20:40	WG1231554
Methylene Chloride	U		1.07	2.50	1	02/01/2019 20:40	WG1231554
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 20:40	WG1231554
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 20:40	WG1231554
Naphthalene	U	JO	0.174	2.50	1	02/01/2019 20:40	WG1231554
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 20:40	WG1231554
Styrene	U		0.117	0.500	1	02/01/2019 20:40	WG1231554
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 20:40	WG1231554
1,1,2,2-Tetrachloroethane	U	JO	0.130	0.500	1	02/01/2019 20:40	WG1231554

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	02/01/2019 20:40	WG1231554
Tetrachloroethene	U		0.199	0.500	1	02/01/2019 20:40	WG1231554
Toluene	U		0.412	0.500	1	02/01/2019 20:40	WG1231554
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.164	0.500	1	02/01/2019 20:40	WG1231554
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 20:40	WG1231554
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 20:40	WG1231554
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 20:40	WG1231554
Trichloroethene	U		0.153	0.500	1	02/01/2019 20:40	WG1231554
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 20:40	WG1231554
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 20:40	WG1231554
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 20:40	WG1231554
1,2,3-Trimethylbenzene	U	<u>JO J4</u>	0.0739	0.500	1	02/01/2019 20:40	WG1231554
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 20:40	WG1231554
Vinyl acetate	U		0.645	5.00	1	02/01/2019 20:40	WG1231554
Vinyl chloride	U		0.118	0.500	1	02/03/2019 14:52	WG1231885
Xylenes, Total	U		0.316	1.50	1	02/01/2019 20:40	WG1231554
(S) Toluene-d8	106			80.0-120		02/01/2019 20:40	WG1231554
(S) Toluene-d8	102			80.0-120		02/03/2019 14:52	WG1231885
(S) Dibromofluoromethane	99.0			75.0-120		02/01/2019 20:40	WG1231554
(S) 4-Bromofluorobenzene	82.0			77.0-126		02/01/2019 20:40	WG1231554
(S) 4-Bromofluorobenzene	95.3			77.0-126		02/03/2019 14:52	WG1231885
(S) 1,2-Dichloroethane-d4	92.8			70.0-130		02/03/2019 14:52	WG1231885

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ 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
Acetone	U		5.25	125	5	02/01/2019 21:01	WG1231554
Acrylonitrile	U		4.36	25.0	5	02/01/2019 21:01	WG1231554
Benzene	1.02	J	0.448	2.50	5	02/01/2019 21:01	WG1231554
Bromobenzene	U		0.665	2.50	5	02/01/2019 21:01	WG1231554
Bromodichloromethane	U		0.400	2.50	5	02/01/2019 21:01	WG1231554
Bromochloromethane	U		0.725	2.50	5	02/01/2019 21:01	WG1231554
Bromoform	U		0.930	2.50	5	02/01/2019 21:01	WG1231554
Bromomethane	U		0.785	12.5	5	02/01/2019 21:01	WG1231554
n-Butylbenzene	U		0.715	2.50	5	02/01/2019 21:01	WG1231554
sec-Butylbenzene	U		0.670	2.50	5	02/01/2019 21:01	WG1231554
tert-Butylbenzene	U		0.915	2.50	5	02/01/2019 21:01	WG1231554
Carbon disulfide	U		0.505	2.50	5	02/01/2019 21:01	WG1231554
Carbon tetrachloride	U		0.795	2.50	5	02/01/2019 21:01	WG1231554
Chlorobenzene	U		0.700	2.50	5	02/01/2019 21:01	WG1231554
Chlorodibromomethane	U		0.640	2.50	5	02/01/2019 21:01	WG1231554
Chloroethane	U		0.705	12.5	5	02/01/2019 21:01	WG1231554
Chloroform	U		0.430	2.50	5	02/01/2019 21:01	WG1231554
Chloromethane	U		0.765	6.25	5	02/01/2019 21:01	WG1231554
2-Chlorotoluene	U		0.555	2.50	5	02/01/2019 21:01	WG1231554
4-Chlorotoluene	U		0.486	2.50	5	02/01/2019 21:01	WG1231554
1,2-Dibromo-3-Chloropropane	U	JO	1.62	12.5	5	02/01/2019 21:01	WG1231554
1,2-Dibromoethane	U		0.965	2.50	5	02/01/2019 21:01	WG1231554
Dibromomethane	U		0.585	2.50	5	02/01/2019 21:01	WG1231554
1,2-Dichlorobenzene	U		0.505	2.50	5	02/01/2019 21:01	WG1231554
1,3-Dichlorobenzene	U		0.650	2.50	5	02/01/2019 21:01	WG1231554
1,4-Dichlorobenzene	U		0.605	2.50	5	02/01/2019 21:01	WG1231554
Dichlorodifluoromethane	U		0.635	12.5	5	02/01/2019 21:01	WG1231554
1,1-Dichloroethane	U		0.570	2.50	5	02/01/2019 21:01	WG1231554
1,2-Dichloroethane	U		0.540	2.50	5	02/01/2019 21:01	WG1231554
1,1-Dichloroethene	8.61		0.940	2.50	5	02/01/2019 21:01	WG1231554
cis-1,2-Dichloroethene	6330		18.7	100	200	02/03/2019 18:44	WG1231885
trans-1,2-Dichloroethene	22.8		0.760	2.50	5	02/01/2019 21:01	WG1231554
1,2-Dichloropropane	U		0.950	2.50	5	02/01/2019 21:01	WG1231554
1,1-Dichloropropene	U		0.640	2.50	5	02/01/2019 21:01	WG1231554
1,3-Dichloropropane	U		0.735	5.00	5	02/01/2019 21:01	WG1231554
cis-1,3-Dichloropropene	U		0.488	2.50	5	02/01/2019 21:01	WG1231554
trans-1,3-Dichloropropene	U		1.11	2.50	5	02/01/2019 21:01	WG1231554
trans-1,4-Dichloro-2-butene	U		1.28	25.0	5	02/01/2019 21:01	WG1231554
2,2-Dichloropropane	U		0.464	2.50	5	02/01/2019 21:01	WG1231554
Di-isopropyl ether	U		0.462	2.50	5	02/01/2019 21:01	WG1231554
Ethylbenzene	U		0.790	2.50	5	02/01/2019 21:01	WG1231554
Hexachloro-1,3-butadiene	U		0.785	5.00	5	02/01/2019 21:01	WG1231554
2-Hexanone	U		3.78	25.0	5	02/01/2019 21:01	WG1231554
n-Hexane	U		1.52	25.0	5	02/01/2019 21:01	WG1231554
Iodomethane	U		1.88	50.0	5	02/01/2019 21:01	WG1231554
Isopropylbenzene	U		0.630	2.50	5	02/01/2019 21:01	WG1231554
p-Isopropyltoluene	U		0.690	2.50	5	02/01/2019 21:01	WG1231554
2-Butanone (MEK)	U	JO	6.40	25.0	5	02/01/2019 21:01	WG1231554
Methylene Chloride	U		5.35	12.5	5	02/01/2019 21:01	WG1231554
4-Methyl-2-pentanone (MIBK)	U		4.12	25.0	5	02/01/2019 21:01	WG1231554
Methyl tert-butyl ether	U		0.510	2.50	5	02/01/2019 21:01	WG1231554
Naphthalene	U	JO	0.870	12.5	5	02/01/2019 21:01	WG1231554
n-Propylbenzene	U		0.810	2.50	5	02/01/2019 21:01	WG1231554
Styrene	U		0.585	2.50	5	02/01/2019 21:01	WG1231554
1,1,1,2-Tetrachloroethane	U		0.600	2.50	5	02/01/2019 21:01	WG1231554
1,1,2,2-Tetrachloroethane	U	JO	0.650	2.50	5	02/01/2019 21:01	WG1231554

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		0.820	2.50	5	02/01/2019 21:01	WG1231554
Tetrachloroethene	U		0.995	2.50	5	02/01/2019 21:01	WG1231554
Toluene	U		2.06	2.50	5	02/01/2019 21:01	WG1231554
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.820	2.50	5	02/01/2019 21:01	WG1231554
1,2,4-Trichlorobenzene	U		1.78	2.50	5	02/01/2019 21:01	WG1231554
1,1,1-Trichloroethane	U		0.470	2.50	5	02/01/2019 21:01	WG1231554
1,1,2-Trichloroethane	U		0.930	2.50	5	02/01/2019 21:01	WG1231554
Trichloroethene	2.81		0.765	2.50	5	02/01/2019 21:01	WG1231554
Trichlorofluoromethane	U		0.650	12.5	5	02/01/2019 21:01	WG1231554
1,2,3-Trichloropropane	U		1.24	12.5	5	02/01/2019 21:01	WG1231554
1,2,4-Trimethylbenzene	U		0.615	2.50	5	02/01/2019 21:01	WG1231554
1,2,3-Trimethylbenzene	U	<u>JO J4</u>	0.370	2.50	5	02/01/2019 21:01	WG1231554
1,3,5-Trimethylbenzene	U		0.620	2.50	5	02/01/2019 21:01	WG1231554
Vinyl acetate	U		3.22	25.0	5	02/01/2019 21:01	WG1231554
Vinyl chloride	34.8		0.590	2.50	5	02/01/2019 21:01	WG1231554
Xylenes, Total	U		1.58	7.50	5	02/01/2019 21:01	WG1231554
(S) Toluene-d8	106			80.0-120		02/01/2019 21:01	WG1231554
(S) Toluene-d8	101			80.0-120		02/03/2019 18:44	WG1231885
(S) Dibromofluoromethane	102			75.0-120		02/01/2019 21:01	WG1231554
(S) 4-Bromofluorobenzene	85.0			77.0-126		02/01/2019 21:01	WG1231554
(S) 4-Bromofluorobenzene	99.9			77.0-126		02/03/2019 18:44	WG1231885
(S) 1,2-Dichloroethane-d4	98.6			70.0-130		02/03/2019 18:44	WG1231885

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	3350	J	2710	20000	1	02/04/2019 18:11	WG1232234

Sample Narrative:

L1065595-04 WG1232234: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	122	J	51.9	1000	1	01/31/2019 21:22	WG1230731
Nitrate	45.8	J	22.7	100	1	01/31/2019 21:22	WG1230731
Sulfate	U		77.4	5000	1	01/31/2019 21:22	WG1230731

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	738	B J	102	1000	1	01/31/2019 23:16	WG1230357

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	42.2	J	15.0	100	1	02/01/2019 14:59	WG1231148
Manganese	1.22	J	0.250	5.00	1	02/01/2019 14:59	WG1231148

Volatile Organic Compounds (GC) by Method NWTPHGX

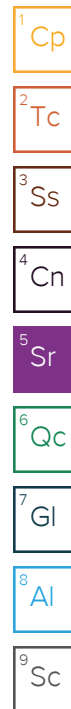
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	02/01/2019 20:49	WG1231257
(S) a,a,a-Trifluorotoluene(FID)	108			78.0-120		02/01/2019 20:49	WG1231257

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	11.1		0.287	0.678	1	02/01/2019 14:38	WG1231475
Ethane	U		0.296	1.29	1	02/01/2019 14:38	WG1231475
Ethene	U		0.422	1.27	1	02/01/2019 14:38	WG1231475

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	02/01/2019 21:21	WG1231554
Acrylonitrile	U		0.873	5.00	1	02/01/2019 21:21	WG1231554
Benzene	U		0.0896	0.500	1	02/01/2019 21:21	WG1231554
Bromobenzene	U		0.133	0.500	1	02/01/2019 21:21	WG1231554
Bromodichloromethane	0.221	J	0.0800	0.500	1	02/01/2019 21:21	WG1231554
Bromochloromethane	U		0.145	0.500	1	02/01/2019 21:21	WG1231554
Bromoform	U		0.186	0.500	1	02/01/2019 21:21	WG1231554
Bromomethane	U		0.157	2.50	1	02/01/2019 21:21	WG1231554
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 21:21	WG1231554
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 21:21	WG1231554
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 21:21	WG1231554
Carbon disulfide	U		0.101	0.500	1	02/01/2019 21:21	WG1231554
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 21:21	WG1231554





Collected date/time: 01/30/19 12:30

L1065595

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	02/01/2019 21:21	WG1231554
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 21:21	WG1231554
Chloroethane	U		0.141	2.50	1	02/01/2019 21:21	WG1231554
Chloroform	0.260	BJ	0.0860	0.500	1	02/01/2019 21:21	WG1231554
Chloromethane	U		0.153	1.25	1	02/01/2019 21:21	WG1231554
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 21:21	WG1231554
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 21:21	WG1231554
1,2-Dibromo-3-Chloropropane	U	JO	0.325	2.50	1	02/01/2019 21:21	WG1231554
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 21:21	WG1231554
Dibromomethane	U		0.117	0.500	1	02/01/2019 21:21	WG1231554
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 21:21	WG1231554
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 21:21	WG1231554
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 21:21	WG1231554
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 21:21	WG1231554
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 21:21	WG1231554
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 21:21	WG1231554
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 21:21	WG1231554
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/03/2019 15:11	WG1231885
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 21:21	WG1231554
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 21:21	WG1231554
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 21:21	WG1231554
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 21:21	WG1231554
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 21:21	WG1231554
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 21:21	WG1231554
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 21:21	WG1231554
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 21:21	WG1231554
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 21:21	WG1231554
Ethylbenzene	U		0.158	0.500	1	02/01/2019 21:21	WG1231554
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 21:21	WG1231554
2-Hexanone	U		0.757	5.00	1	02/01/2019 21:21	WG1231554
n-Hexane	U		0.305	5.00	1	02/01/2019 21:21	WG1231554
Iodomethane	U		0.377	10.0	1	02/01/2019 21:21	WG1231554
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 21:21	WG1231554
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 21:21	WG1231554
2-Butanone (MEK)	U	JO	1.28	5.00	1	02/01/2019 21:21	WG1231554
Methylene Chloride	U		1.07	2.50	1	02/01/2019 21:21	WG1231554
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 21:21	WG1231554
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 21:21	WG1231554
Naphthalene	U	JO	0.174	2.50	1	02/01/2019 21:21	WG1231554
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 21:21	WG1231554
Styrene	U		0.117	0.500	1	02/01/2019 21:21	WG1231554
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 21:21	WG1231554
1,1,2,2-Tetrachloroethane	U	JO	0.130	0.500	1	02/01/2019 21:21	WG1231554
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/01/2019 21:21	WG1231554
Tetrachloroethene	U		0.199	0.500	1	02/01/2019 21:21	WG1231554
Toluene	U		0.412	0.500	1	02/01/2019 21:21	WG1231554
1,2,3-Trichlorobenzene	U	JO	0.164	0.500	1	02/01/2019 21:21	WG1231554
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 21:21	WG1231554
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 21:21	WG1231554
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 21:21	WG1231554
Trichloroethene	U		0.153	0.500	1	02/01/2019 21:21	WG1231554
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 21:21	WG1231554
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 21:21	WG1231554
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 21:21	WG1231554
1,2,3-Trimethylbenzene	U	JO J4	0.0739	0.500	1	02/01/2019 21:21	WG1231554
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 21:21	WG1231554

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/30/19 12:30

L1065595

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	02/01/2019 21:21	WG1231554
Vinyl chloride	U		0.118	0.500	1	02/01/2019 21:21	WG1231554
Xylenes, Total	U		0.316	1.50	1	02/01/2019 21:21	WG1231554
(S) Toluene-d8	104			80.0-120		02/01/2019 21:21	WG1231554
(S) Toluene-d8	98.2			80.0-120		02/03/2019 15:11	WG1231885
(S) Dibromofluoromethane	100			75.0-120		02/01/2019 21:21	WG1231554
(S) 4-Bromofluorobenzene	85.0			77.0-126		02/01/2019 21:21	WG1231554
(S) 4-Bromofluorobenzene	96.0			77.0-126		02/03/2019 15:11	WG1231885
(S) 1,2-Dichloroethane-d4	96.8			70.0-130		02/03/2019 15:11	WG1231885

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	
Acetone	U		1.05	25.0	1	02/01/2019 21:41	WG1231554
Acrylonitrile	U		0.873	5.00	1	02/01/2019 21:41	WG1231554
Benzene	U		0.0896	0.500	1	02/01/2019 21:41	WG1231554
Bromobenzene	U		0.133	0.500	1	02/01/2019 21:41	WG1231554
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 21:41	WG1231554
Bromochloromethane	U		0.145	0.500	1	02/01/2019 21:41	WG1231554
Bromoform	U		0.186	0.500	1	02/01/2019 21:41	WG1231554
Bromomethane	U		0.157	2.50	1	02/01/2019 21:41	WG1231554
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 21:41	WG1231554
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 21:41	WG1231554
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 21:41	WG1231554
Carbon disulfide	U		0.101	0.500	1	02/01/2019 21:41	WG1231554
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 21:41	WG1231554
Chlorobenzene	U		0.140	0.500	1	02/01/2019 21:41	WG1231554
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 21:41	WG1231554
Chloroethane	U		0.141	2.50	1	02/01/2019 21:41	WG1231554
Chloroform	U		0.0860	0.500	1	02/01/2019 21:41	WG1231554
Chloromethane	U		0.153	1.25	1	02/01/2019 21:41	WG1231554
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 21:41	WG1231554
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 21:41	WG1231554
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.325	2.50	1	02/01/2019 21:41	WG1231554
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 21:41	WG1231554
Dibromomethane	U		0.117	0.500	1	02/01/2019 21:41	WG1231554
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 21:41	WG1231554
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 21:41	WG1231554
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 21:41	WG1231554
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 21:41	WG1231554
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 21:41	WG1231554
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 21:41	WG1231554
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 21:41	WG1231554
cis-1,2-Dichloroethene	0.316	<u>J</u>	0.0933	0.500	1	02/03/2019 15:30	WG1231885
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 21:41	WG1231554
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 21:41	WG1231554
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 21:41	WG1231554
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 21:41	WG1231554
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 21:41	WG1231554
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 21:41	WG1231554
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 21:41	WG1231554
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 21:41	WG1231554
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 21:41	WG1231554
Ethylbenzene	U		0.158	0.500	1	02/01/2019 21:41	WG1231554
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 21:41	WG1231554
2-Hexanone	U		0.757	5.00	1	02/01/2019 21:41	WG1231554
n-Hexane	U		0.305	5.00	1	02/01/2019 21:41	WG1231554
Iodomethane	U		0.377	10.0	1	02/01/2019 21:41	WG1231554
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 21:41	WG1231554
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 21:41	WG1231554
2-Butanone (MEK)	U	<u>JO</u>	1.28	5.00	1	02/01/2019 21:41	WG1231554
Methylene Chloride	U		1.07	2.50	1	02/01/2019 21:41	WG1231554
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 21:41	WG1231554
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 21:41	WG1231554
Naphthalene	U	<u>JO</u>	0.174	2.50	1	02/01/2019 21:41	WG1231554
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 21:41	WG1231554
Styrene	U		0.117	0.500	1	02/01/2019 21:41	WG1231554
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 21:41	WG1231554
1,1,2,2-Tetrachloroethane	U	<u>JO</u>	0.130	0.500	1	02/01/2019 21:41	WG1231554

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	02/01/2019 21:41	WG1231554
Tetrachloroethene	U		0.199	0.500	1	02/01/2019 21:41	WG1231554
Toluene	U		0.412	0.500	1	02/01/2019 21:41	WG1231554
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.164	0.500	1	02/01/2019 21:41	WG1231554
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 21:41	WG1231554
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 21:41	WG1231554
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 21:41	WG1231554
Trichloroethene	U		0.153	0.500	1	02/01/2019 21:41	WG1231554
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 21:41	WG1231554
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 21:41	WG1231554
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 21:41	WG1231554
1,2,3-Trimethylbenzene	U	<u>JO J4</u>	0.0739	0.500	1	02/01/2019 21:41	WG1231554
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 21:41	WG1231554
Vinyl acetate	U		0.645	5.00	1	02/01/2019 21:41	WG1231554
Vinyl chloride	12.4		0.118	0.500	1	02/01/2019 21:41	WG1231554
Xylenes, Total	U		0.316	1.50	1	02/01/2019 21:41	WG1231554
(S) Toluene-d8	105			80.0-120		02/01/2019 21:41	WG1231554
(S) Toluene-d8	99.2			80.0-120		02/03/2019 15:30	WG1231885
(S) Dibromofluoromethane	101			75.0-120		02/01/2019 21:41	WG1231554
(S) 4-Bromofluorobenzene	83.0			77.0-126		02/01/2019 21:41	WG1231554
(S) 4-Bromofluorobenzene	98.7			77.0-126		02/03/2019 15:30	WG1231885
(S) 1,2-Dichloroethane-d4	90.8			70.0-130		02/03/2019 15:30	WG1231885

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	U		31.6	100	1	02/01/2019 21:11	WG1231257
(S) a,a,a-Trifluorotoluene(FID)	109			78.0-120		02/01/2019 21:11	WG1231257

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
Acetone	U		1.05	25.0	1	02/01/2019 22:01	WG1231554
Acrylonitrile	U		0.873	5.00	1	02/01/2019 22:01	WG1231554
Benzene	U		0.0896	0.500	1	02/01/2019 22:01	WG1231554
Bromobenzene	U		0.133	0.500	1	02/01/2019 22:01	WG1231554
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 22:01	WG1231554
Bromochloromethane	U		0.145	0.500	1	02/01/2019 22:01	WG1231554
Bromoform	U		0.186	0.500	1	02/01/2019 22:01	WG1231554
Bromomethane	U		0.157	2.50	1	02/01/2019 22:01	WG1231554
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 22:01	WG1231554
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 22:01	WG1231554
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 22:01	WG1231554
Carbon disulfide	U		0.101	0.500	1	02/01/2019 22:01	WG1231554
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 22:01	WG1231554
Chlorobenzene	U		0.140	0.500	1	02/01/2019 22:01	WG1231554
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 22:01	WG1231554
Chloroethane	U		0.141	2.50	1	02/01/2019 22:01	WG1231554
Chloroform	U		0.0860	0.500	1	02/01/2019 22:01	WG1231554
Chloromethane	U		0.153	1.25	1	02/01/2019 22:01	WG1231554
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 22:01	WG1231554
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 22:01	WG1231554
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.325	2.50	1	02/01/2019 22:01	WG1231554
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 22:01	WG1231554
Dibromomethane	U		0.117	0.500	1	02/01/2019 22:01	WG1231554
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 22:01	WG1231554
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 22:01	WG1231554
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 22:01	WG1231554
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 22:01	WG1231554
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 22:01	WG1231554
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 22:01	WG1231554
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 22:01	WG1231554
cis-1,2-Dichloroethene	0.479	<u>J</u>	0.0933	0.500	1	02/01/2019 22:01	WG1231554
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 22:01	WG1231554
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 22:01	WG1231554
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 22:01	WG1231554
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 22:01	WG1231554
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 22:01	WG1231554
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 22:01	WG1231554
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 22:01	WG1231554
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 22:01	WG1231554
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 22:01	WG1231554
Ethylbenzene	U		0.158	0.500	1	02/01/2019 22:01	WG1231554
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 22:01	WG1231554
2-Hexanone	U		0.757	5.00	1	02/01/2019 22:01	WG1231554
n-Hexane	U		0.305	5.00	1	02/01/2019 22:01	WG1231554
Iodomethane	U		0.377	10.0	1	02/01/2019 22:01	WG1231554
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 22:01	WG1231554
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 22:01	WG1231554
2-Butanone (MEK)	U	<u>JO</u>	1.28	5.00	1	02/01/2019 22:01	WG1231554



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	02/01/2019 22:01	WG1231554
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 22:01	WG1231554
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 22:01	WG1231554
Naphthalene	U	<u>JO</u>	0.174	2.50	1	02/01/2019 22:01	WG1231554
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 22:01	WG1231554
Styrene	U		0.117	0.500	1	02/01/2019 22:01	WG1231554
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 22:01	WG1231554
1,1,2,2-Tetrachloroethane	U	<u>JO</u>	0.130	0.500	1	02/01/2019 22:01	WG1231554
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/01/2019 22:01	WG1231554
Tetrachloroethene	U		0.199	0.500	1	02/01/2019 22:01	WG1231554
Toluene	U		0.412	0.500	1	02/01/2019 22:01	WG1231554
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.164	0.500	1	02/01/2019 22:01	WG1231554
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 22:01	WG1231554
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 22:01	WG1231554
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 22:01	WG1231554
Trichloroethene	U		0.153	0.500	1	02/01/2019 22:01	WG1231554
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 22:01	WG1231554
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 22:01	WG1231554
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 22:01	WG1231554
1,2,3-Trimethylbenzene	U	<u>JO J4</u>	0.0739	0.500	1	02/01/2019 22:01	WG1231554
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 22:01	WG1231554
Vinyl acetate	U		0.645	5.00	1	02/01/2019 22:01	WG1231554
Vinyl chloride	U		0.118	0.500	1	02/01/2019 22:01	WG1231554
Xylenes, Total	U		0.316	1.50	1	02/01/2019 22:01	WG1231554
(S) Toluene-d8	107			80.0-120		02/01/2019 22:01	WG1231554
(S) Dibromofluoromethane	100			75.0-120		02/01/2019 22:01	WG1231554
(S) 4-Bromofluorobenzene	83.0			77.0-126		02/01/2019 22:01	WG1231554

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ 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	
Acetone	U		1.05	25.0	1	02/01/2019 17:39	WG1231554
Acrylonitrile	U		0.873	5.00	1	02/01/2019 17:39	WG1231554
Benzene	U		0.0896	0.500	1	02/01/2019 17:39	WG1231554
Bromobenzene	U		0.133	0.500	1	02/01/2019 17:39	WG1231554
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 17:39	WG1231554
Bromochloromethane	U		0.145	0.500	1	02/01/2019 17:39	WG1231554
Bromoform	U		0.186	0.500	1	02/01/2019 17:39	WG1231554
Bromomethane	U		0.157	2.50	1	02/01/2019 17:39	WG1231554
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 17:39	WG1231554
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 17:39	WG1231554
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 17:39	WG1231554
Carbon disulfide	U		0.101	0.500	1	02/01/2019 17:39	WG1231554
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 17:39	WG1231554
Chlorobenzene	U		0.140	0.500	1	02/01/2019 17:39	WG1231554
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 17:39	WG1231554
Chloroethane	U		0.141	2.50	1	02/01/2019 17:39	WG1231554
Chloroform	U		0.0860	0.500	1	02/01/2019 17:39	WG1231554
Chloromethane	U		0.153	1.25	1	02/01/2019 17:39	WG1231554
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 17:39	WG1231554
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 17:39	WG1231554
1,2-Dibromo-3-Chloropropane	U	JO	0.325	2.50	1	02/01/2019 17:39	WG1231554
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 17:39	WG1231554
Dibromomethane	U		0.117	0.500	1	02/01/2019 17:39	WG1231554
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 17:39	WG1231554
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 17:39	WG1231554
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 17:39	WG1231554
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 17:39	WG1231554
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 17:39	WG1231554
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 17:39	WG1231554
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 17:39	WG1231554
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/01/2019 17:39	WG1231554
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 17:39	WG1231554
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 17:39	WG1231554
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 17:39	WG1231554
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 17:39	WG1231554
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 17:39	WG1231554
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 17:39	WG1231554
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 17:39	WG1231554
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 17:39	WG1231554
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 17:39	WG1231554
Ethylbenzene	U		0.158	0.500	1	02/01/2019 17:39	WG1231554
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 17:39	WG1231554
2-Hexanone	U		0.757	5.00	1	02/01/2019 17:39	WG1231554
n-Hexane	U		0.305	5.00	1	02/01/2019 17:39	WG1231554
Iodomethane	U		0.377	10.0	1	02/01/2019 17:39	WG1231554
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 17:39	WG1231554
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 17:39	WG1231554
2-Butanone (MEK)	U	JO	1.28	5.00	1	02/01/2019 17:39	WG1231554
Methylene Chloride	U		1.07	2.50	1	02/01/2019 17:39	WG1231554
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 17:39	WG1231554
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 17:39	WG1231554
Naphthalene	U	JO	0.174	2.50	1	02/01/2019 17:39	WG1231554
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 17:39	WG1231554
Styrene	U		0.117	0.500	1	02/01/2019 17:39	WG1231554
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 17:39	WG1231554
1,1,2,2-Tetrachloroethane	U	JO	0.130	0.500	1	02/01/2019 17:39	WG1231554

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/30/19 00:00

L1065595

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	02/01/2019 17:39	WG1231554
Tetrachloroethene	U		0.199	0.500	1	02/01/2019 17:39	WG1231554
Toluene	0.700		0.412	0.500	1	02/01/2019 17:39	WG1231554
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.164	0.500	1	02/01/2019 17:39	WG1231554
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 17:39	WG1231554
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 17:39	WG1231554
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 17:39	WG1231554
Trichloroethene	U		0.153	0.500	1	02/01/2019 17:39	WG1231554
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 17:39	WG1231554
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 17:39	WG1231554
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 17:39	WG1231554
1,2,3-Trimethylbenzene	U	<u>JO J4</u>	0.0739	0.500	1	02/01/2019 17:39	WG1231554
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 17:39	WG1231554
Vinyl acetate	U		0.645	5.00	1	02/01/2019 17:39	WG1231554
Vinyl chloride	U		0.118	0.500	1	02/01/2019 17:39	WG1231554
Xylenes, Total	U		0.316	1.50	1	02/01/2019 17:39	WG1231554
(S) Toluene-d8	105			80.0-120		02/01/2019 17:39	WG1231554
(S) Dibromofluoromethane	99.0			75.0-120		02/01/2019 17:39	WG1231554
(S) 4-Bromofluorobenzene	87.0			77.0-126		02/01/2019 17:39	WG1231554

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Method Blank (MB)

(MB) R3381128-1 02/04/19 15:28

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Alkalinity	U		2710	20000

Sample Narrative:
BLANK: Endpoint pH 4.5

L1065509-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1065509-01 02/04/19 15:34 • (DUP) R3381128-3 02/04/19 15:41

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	288000	294000	1	2.09		20

Sample Narrative:
OS: Endpoint pH 4.5 HEADSPACE
DUP: Endpoint pH 4.5

L1065576-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1065576-03 02/04/19 17:40 • (DUP) R3381128-6 02/04/19 17:48

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	299000	293000	1	2.26		20

Sample Narrative:
OS: Endpoint pH 4.5 HEADSPACE
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3381128-5 02/04/19 16:41

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Alkalinity	100000	104000	104	85.0-115	

Sample Narrative:
LCS: Endpoint pH 4.5

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



Method Blank (MB)

(MB) R3380468-1 01/31/19 11:33

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		51.9	1000
Nitrate	U		22.7	100
Sulfate	U		77.4	5000

L1065555-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1065555-01 01/31/19 16:19 • (DUP) R3380468-3 01/31/19 16:35

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP RPD Limits %
Chloride	ND	0.000	1	0.000	15
Nitrate	ND	0.000	1	0.000	15
Sulfate	ND	0.000	1	0.000	15

L1065576-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1065576-03 01/31/19 20:18 • (DUP) R3380468-6 01/31/19 20:34

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP RPD Limits %
Chloride	20000	20100	1	0.220	15
Nitrate	U	0.000	1	0.000	15
Sulfate	6740	6780	1	0.669	15

Laboratory Control Sample (LCS)

(LCS) R3380468-2 01/31/19 11:49

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	40700	102	80.0-120	
Nitrate	8000	8260	103	80.0-120	
Sulfate	40000	41300	103	80.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



L1065555-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1065555-01 01/31/19 16:19 • (MS) R3380468-4 01/31/19 16:51 • (MSD) R3380468-5 01/31/19 17:07

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Chloride	50000	ND	49500	50200	99.0	100	1	80.0-120			1.47	15
Nitrate	5000	ND	4930	5010	98.6	100	1	80.0-120			1.74	15
Sulfate	50000	ND	49500	50300	99.0	101	1	80.0-120			1.60	15

L1065576-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1065576-03 01/31/19 20:18 • (MS) R3380468-7 01/31/19 20:50

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50000	20000	69100	98.2	1	80.0-120	
Nitrate	5000	U	4880	97.6	1	80.0-120	
Sulfate	50000	6740	55700	98.0	1	80.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3380513-1 01/31/19 10:37

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	232		102	1000

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1065152-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1065152-02 01/31/19 13:19 • (DUP) R3380513-3 01/31/19 13:39

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC	4800	4900	1	2.08		20

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R3380513-2 01/31/19 11:59

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC	75000	77100	103	85.0-115	

⁹Sc



Method Blank (MB)

(MB) R3380606-1 02/01/19 12:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iron	U		15.0	100
Manganese	U		0.250	5.00

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3380606-2 02/01/19 12:56 • (LCSD) R3380606-3 02/01/19 13:01

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 %
Iron	5000	5050	4990	101	99.8	80.0-120			1.14	20
Manganese	50.0	51.3	50.8	103	102	80.0-120			0.991	20

L1065752-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1065752-05 02/01/19 13:06 • (MS) R3380606-5 02/01/19 13:15 • (MSD) R3380606-6 02/01/19 13:19

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 %
Iron	5000	ND	4900	4910	97.4	97.4	1	75.0-125			0.0534	20
Manganese	50.0	ND	51.3	50.1	101	98.3	1	75.0-125			2.49	20



Method Blank (MB)

(MB) R3381264-5 02/01/19 13:56

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)	108			78.0-120

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

(LCS) R3381264-3 02/01/19 12:50 • (LCSD) R3381264-4 02/01/19 13:12

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	5300	5450	96.3	99.1	70.0-124			2.86	20
(S) a,a,a-Trifluorotoluene(FID)				109	108	78.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3380525-1 02/01/19 11:10

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1065527-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1065527-07 02/01/19 11:34 • (DUP) R3380525-2 02/01/19 13:07

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

L1065741-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1065741-09 02/01/19 13:54 • (DUP) R3380525-3 02/01/19 14:03

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

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

(LCS) R3380525-4 02/01/19 14:14 • (LCSD) R3380525-5 02/01/19 14:18

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
Ethane	129	112	113	86.6	87.4	85.0-115			0.894	20
Ethene	127	111	112	87.1	88.6	85.0-115			1.62	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3380583-1 02/01/19 14:35

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1065741-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1065741-08 02/01/19 14:41 • (DUP) R3380583-2 02/01/19 15:06

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Methane	19.8	21.9	1	9.85		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

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

(LCS) R3380583-3 02/01/19 15:11 • (LCSD) R3380583-4 02/01/19 15:17

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	70.8	69.2	104	102	85.0-115			2.28	20
Ethane	129	114	114	88.3	88.4	85.0-115			0.194	20
Ethene	127	117	111	91.7	87.5	85.0-115			4.72	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3380799-3 02/01/19 16:24

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	0.160	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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3380799-3 02/01/19 16:24

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	0.218	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	97.0			75.0-120
(S) 4-Bromofluorobenzene	85.0			77.0-126

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) R3380799-1 02/01/19 15:24 • (LCSD) R3380799-2 02/01/19 15:44

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	125	106	108	84.8	86.6	19.0-160			2.11	27
Acrylonitrile	125	106	109	85.1	87.3	55.0-149			2.57	20
Benzene	25.0	22.6	22.3	90.3	89.2	70.0-123			1.21	20
Bromobenzene	25.0	20.7	21.0	82.6	84.2	73.0-121			1.86	20
Bromodichloromethane	25.0	25.1	24.9	101	99.5	75.0-120			1.04	20
Bromochloromethane	25.0	24.4	24.1	97.6	96.3	76.0-122			1.37	20
Bromoform	25.0	21.2	21.6	84.8	86.6	68.0-132			2.09	20
Bromomethane	25.0	27.9	27.8	111	111	10.0-160			0.0744	25
n-Butylbenzene	25.0	24.9	25.4	99.6	101	73.0-125			1.83	20
sec-Butylbenzene	25.0	25.6	25.9	102	104	75.0-125			1.25	20
tert-Butylbenzene	25.0	26.2	26.6	105	107	76.0-124			1.63	20
Carbon disulfide	25.0	20.9	21.6	83.5	86.6	61.0-128			3.59	20
Carbon tetrachloride	25.0	21.9	22.0	87.6	87.9	68.0-126			0.277	20
Chlorobenzene	25.0	26.5	26.5	106	106	80.0-121			0.0401	20
Chlorodibromomethane	25.0	24.7	24.9	98.8	99.6	77.0-125			0.864	20
Chloroethane	25.0	25.2	23.7	101	94.7	47.0-150			6.31	20
Chloroform	25.0	22.3	22.8	89.3	91.2	73.0-120			2.13	20
Chloromethane	25.0	30.7	31.8	123	127	41.0-142			3.49	20
2-Chlorotoluene	25.0	23.4	24.2	93.5	96.6	76.0-123			3.31	20
4-Chlorotoluene	25.0	24.7	24.9	98.8	99.5	75.0-122			0.715	20
1,2-Dibromo-3-Chloropropane	25.0	18.4	19.5	73.7	77.9	58.0-134			5.52	20
1,2-Dibromoethane	25.0	24.4	24.6	97.6	98.6	80.0-122			0.969	20
Dibromomethane	25.0	24.4	24.4	97.4	97.8	80.0-120			0.329	20
1,2-Dichlorobenzene	25.0	26.0	26.8	104	107	79.0-121			3.31	20
1,3-Dichlorobenzene	25.0	26.3	26.1	105	105	79.0-120			0.580	20
1,4-Dichlorobenzene	25.0	23.2	24.3	92.7	97.3	79.0-120			4.90	20
Dichlorodifluoromethane	25.0	33.1	33.6	132	134	51.0-149			1.39	20
1,1-Dichloroethane	25.0	23.9	24.3	95.6	97.1	70.0-126			1.59	20
1,2-Dichloroethane	25.0	23.7	23.3	94.6	93.1	70.0-128			1.58	20
1,1-Dichloroethene	25.0	23.5	22.8	93.9	91.2	71.0-124			2.98	20
cis-1,2-Dichloroethene	25.0	23.6	24.0	94.4	96.0	73.0-120			1.64	20
trans-1,2-Dichloroethene	25.0	23.1	23.1	92.4	92.5	73.0-120			0.0251	20
1,2-Dichloropropane	25.0	26.2	25.1	105	100	77.0-125			4.10	20
1,1-Dichloropropene	25.0	22.3	22.4	89.2	89.7	74.0-126			0.516	20
1,3-Dichloropropane	25.0	25.5	25.2	102	101	80.0-120			1.43	20
cis-1,3-Dichloropropene	25.0	26.0	25.6	104	102	80.0-123			1.63	20
trans-1,3-Dichloropropene	25.0	27.4	26.7	109	107	78.0-124			2.29	20
trans-1,4-Dichloro-2-butene	25.0	20.6	20.5	82.5	82.1	33.0-144			0.424	20
2,2-Dichloropropane	25.0	29.1	29.9	117	120	58.0-130			2.58	20
Di-isopropyl ether	25.0	25.0	25.1	100	100	58.0-138			0.393	20

¹Cp

²Tc

³Ss

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⁸Al

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

(LCS) R3380799-1 02/01/19 15:24 • (LCSD) R3380799-2 02/01/19 15:44

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Ethylbenzene	25.0	24.7	24.9	98.9	99.4	79.0-123			0.538	20
Hexachloro-1,3-butadiene	25.0	24.3	24.7	97.3	98.6	54.0-138			1.28	20
2-Hexanone	125	111	111	88.9	88.9	67.0-149			0.00333	20
n-Hexane	25.0	23.3	23.6	93.2	94.2	57.0-133			1.04	20
Iodomethane	125	116	118	92.9	94.0	33.0-147			1.19	26
Isopropylbenzene	25.0	22.6	22.6	90.6	90.2	76.0-127			0.396	20
p-Isopropyltoluene	25.0	26.0	26.8	104	107	76.0-125			2.85	20
2-Butanone (MEK)	125	98.2	104	78.5	83.4	44.0-160			6.02	20
Methylene Chloride	25.0	22.2	21.9	88.6	87.8	67.0-120			0.997	20
4-Methyl-2-pentanone (MIBK)	125	112	114	89.5	91.0	68.0-142			1.64	20
Methyl tert-butyl ether	25.0	22.6	23.1	90.4	92.3	68.0-125			2.03	20
Naphthalene	25.0	15.4	15.9	61.7	63.7	54.0-135			3.26	20
n-Propylbenzene	25.0	22.1	22.5	88.3	89.8	77.0-124			1.75	20
Styrene	25.0	23.4	23.4	93.4	93.7	73.0-130			0.346	20
1,1,1,2-Tetrachloroethane	25.0	28.0	28.5	112	114	75.0-125			1.93	20
1,1,2,2-Tetrachloroethane	25.0	19.0	20.0	75.9	80.1	65.0-130			5.38	20
1,1,2-Trichlorotrifluoroethane	25.0	23.1	22.8	92.4	91.3	69.0-132			1.21	20
Tetrachloroethene	25.0	27.5	26.7	110	107	72.0-132			2.81	20
Toluene	25.0	25.5	25.2	102	101	79.0-120			0.946	20
1,2,3-Trichlorobenzene	25.0	17.5	17.9	70.0	71.7	50.0-138			2.29	20
1,2,4-Trichlorobenzene	25.0	23.5	23.5	94.0	94.2	57.0-137			0.249	20
1,1,1-Trichloroethane	25.0	24.4	24.8	97.8	99.1	73.0-124			1.38	20
1,1,2-Trichloroethane	25.0	25.4	24.9	101	99.6	80.0-120			1.83	20
Trichloroethene	25.0	25.2	24.7	101	98.7	78.0-124			2.11	20
Trichlorofluoromethane	25.0	25.7	25.6	103	102	59.0-147			0.632	20
1,2,3-Trichloropropane	25.0	21.9	22.2	87.4	88.7	73.0-130			1.48	20
1,2,4-Trimethylbenzene	25.0	24.5	25.7	98.0	103	76.0-121			4.71	20
1,2,3-Trimethylbenzene	25.0	18.5	18.9	74.0	75.5	77.0-120	J4	J4	2.02	20
1,3,5-Trimethylbenzene	25.0	23.4	24.6	93.8	98.4	76.0-122			4.82	20
Vinyl acetate	125	144	144	115	115	11.0-160			0.0277	20
Vinyl chloride	25.0	26.6	27.5	106	110	67.0-131			3.49	20
Xylenes, Total	75.0	79.4	78.7	106	105	79.0-123			0.886	20
(S) Toluene-d8				106	105	80.0-120				
(S) Dibromofluoromethane				96.0	98.0	75.0-120				
(S) 4-Bromofluorobenzene				86.0	87.0	77.0-126				

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Cp

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Tc

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Cn

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Sr

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Qc

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Gl

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Al

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Sc



Method Blank (MB)

(MB) R3381019-3 02/03/19 11:38

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0933	0.500
Vinyl chloride	U		0.118	0.500
(S) Toluene-d8	103			80.0-120
(S) 4-Bromofluorobenzene	100			77.0-126
(S) 1,2-Dichloroethane-d4	98.3			70.0-130

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

(LCS) R3381019-1 02/03/19 10:40 • (LCSD) R3381019-2 02/03/19 10:59

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 %
cis-1,2-Dichloroethene	25.0	26.8	26.7	107	107	73.0-120			0.609	20
Vinyl chloride	25.0	23.9	23.2	95.6	92.9	67.0-131			2.96	20
(S) Toluene-d8				99.8	102	80.0-120				
(S) 4-Bromofluorobenzene				98.1	100	77.0-126				
(S) 1,2-Dichloroethane-d4				93.8	104	70.0-130				

1
Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
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, the sample preparation volume or weight values differ from the standard, 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.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
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: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
J4	The associated batch QC was outside the established quality control range for accuracy.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Pace National 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.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

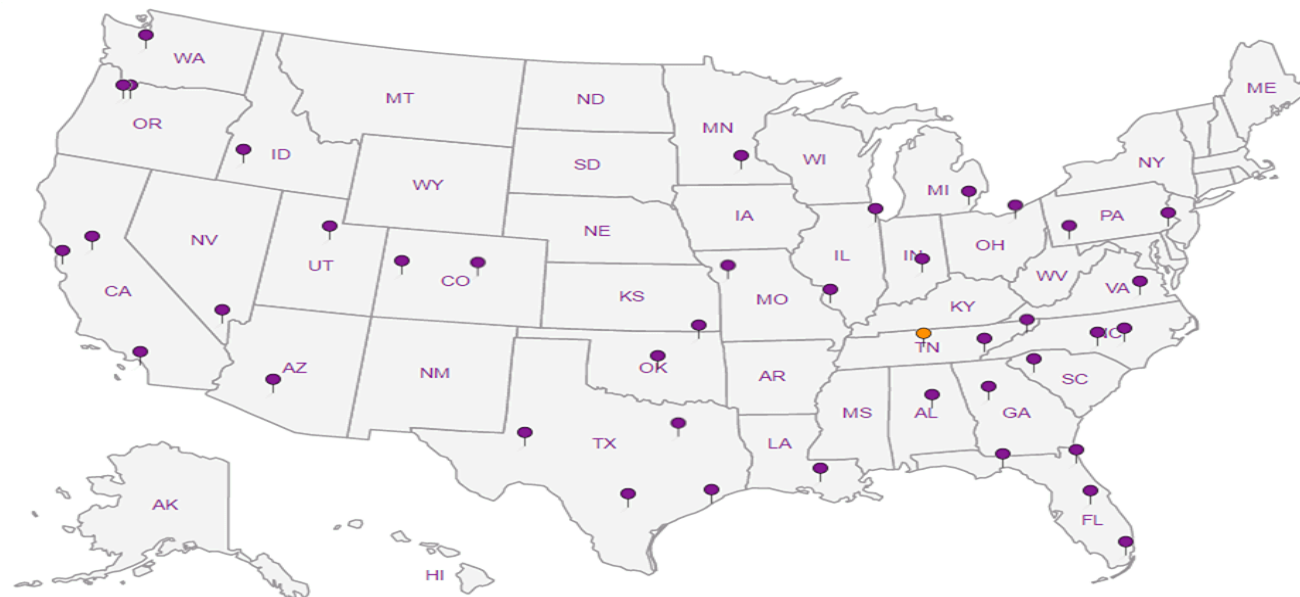
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National 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. Pace National 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 ____ of ____



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



Report to:
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com; KVK@PES ENV.COM
bhaldeman@pesenv.com; KSPRINGSTEAD@PES ENV.COM

Project
Description: American Linen

City/State
Collected: Seattle, WA

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

Client Project #
M13.001.05.305

Lab Project #
PESENVSWA-ALP

Collected by (print):
Ben Hecht

Site/Facility ID #
American Linen

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 ☒

No.
of
Cttrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cttrs
MW-107-013019	Grab	GW	40	01-30-19	0905	12
MW116-013019		GW	40		1015	3
MW113-013019		GW	75		1055	3
EQ-013019		GW	-		1230	12
MW115-013019		GW	40		1245	3
MW-141-013019		GW	100		1400	6
MW-149-013019		GW	40		1450	12
Trip Blank-013019		GW	-		N/A	1
		GW				
		GW				

NWTPHGX 40ml Amb HCl

VOCs (V8260LLC) 40ml Amb-HCl

NO3, SO4, Cl 125ml

Alkalinity - 125ml

BEH (RSK 175LL)-40ml

TOC - 250ml Amb

Total Fe Mn 6020-250ml

L#

1072

Acctnum: PESENVSWA

Template: T145225

Prelogin: P690556

TSR: 110 - Brian Ford

RB:

Shipped Via:

Remarks Sample # (Bib only)

-01
-02
-03
-04
-05
-06
-07
-08

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

Remarks:

Samples returned via:
____ UPS ____ FedEx ____ Courier

pH ____ Temp ____

Flow ____ Other ____

Tracking # 4269 9216 6246

Sample Receipt Checklist

DOC Seal Present/Intact: ☒ N
DOC Signed/Accurate: ☒ N
Bottles arrive intact: ☒ N
Correct bottles used: ☒ N
Sufficient volume sent: ☒ N
If Applicable
VOA Zero Headspace: ☒ N
Preservation Correct/Checked: ☒ N

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Date:
1-30-19

Time:
16:30

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Trip Blank Received: Yes / No
____ HCL / MeOH
____ TBR

Temp: °C Bottles Received: 51

Date: 01/31/19 Time: 08:45

If preservation required by Login: Date/Time

Hold:

Conditions:
NCF / OK

Andy Vann

From: Jason Romer
Sent: Thursday, January 31, 2019 1:48 PM
To: Login
Cc: Brian Ford; Jared N. Starkey
Subject: FW: Groundwater Bottles for American Linen - L1065595 - PESENVSWA - delete -07

per client request, please remove sample MW-14-013019 (L1065595-07)

Thanks,
Jason Romer
Project Manager

Pace Analytical National Center for Testing & Innovation
12065 Lebanon Road | Mt. Juliet, TN 37122
615.773.9713
jromer@pacenational.com | pacenational.com

From: Karsten Springstead [<mailto:KSpringstead@pesenv.com>]
Sent: Thursday, January 31, 2019 12:28 PM
To: Jason Romer
Cc: Brian Ford; Kim Vik; Brian O'Neal
Subject: RE: Groundwater Bottles for American Linen

Jason,
PES shipped groundwater samples yesterday from American Linen that should arrive today. We want to remove sample MW-149-013019 from the sampling list. This well was already sampled (MW-149-012919) and included on the 1/29/19 shipment.
Thanks,
Karsten

From: Jason Romer <jromer@pacenational.com>
Sent: Thursday, January 31, 2019 8:43 AM
To: Karsten Springstead <KSpringstead@pesenv.com>; Jared N. Starkey <jstarkey@pacenational.com>
Cc: Brian Ford <BFord@pacenational.com>; Reid Kenner <rkenner@pacenational.com>
Subject: RE: Groundwater Bottles for American Linen

Karsten,

I will arrange to have these shipped for delivery by COB tomorrow, 02/01

Reid – I will be sending you the push kits info momentarily.

Thanks,
Jason Romer
Project Manager

Pace Analytical National Center for Testing & Innovation

12065 Lebanon Road | Mt. Juliet, TN 37122

615.773.9713

iromer@pacenational.com | pacenational.com

From: Karsten Springstead [<mailto:KSpringstead@pesenv.com>]

Sent: Thursday, January 31, 2019 9:06 AM

To: Jared N. Starkey

Subject: FW: Groundwater Bottles for American Linen

See Below

From: Karsten Springstead

Sent: Thursday, January 31, 2019 7:03 AM

To: 'Brian Ford' <BFord@pacenational.com>

Subject: Groundwater Bottles for American Linen

Brian,

Can I get an additional 8 more sets of the MNA bottles and 8 sets of bottles for VOCs/GX delivered to our office by end of the day tomorrow?

MNA Bottles:

NO3, Cl, SO4, Alkalinity – 250 poly

TOC – 250mL amber glass w/ HCl

Total Fe and Mn by 6020 – 250mL poly w/ HNO3

low level RSK175 for Methane, Ethane, and Ethene – (2)40mL glass w/ HCl

Thanks,

Karsten

Karsten Springstead, L.G.

Project Geologist

PES Environmental, Inc.

ph: (206) 529-3980 ext. 109

cell: (206) 914-0308

fax: (206) 529-3985

PES Environmental, Inc.- WA

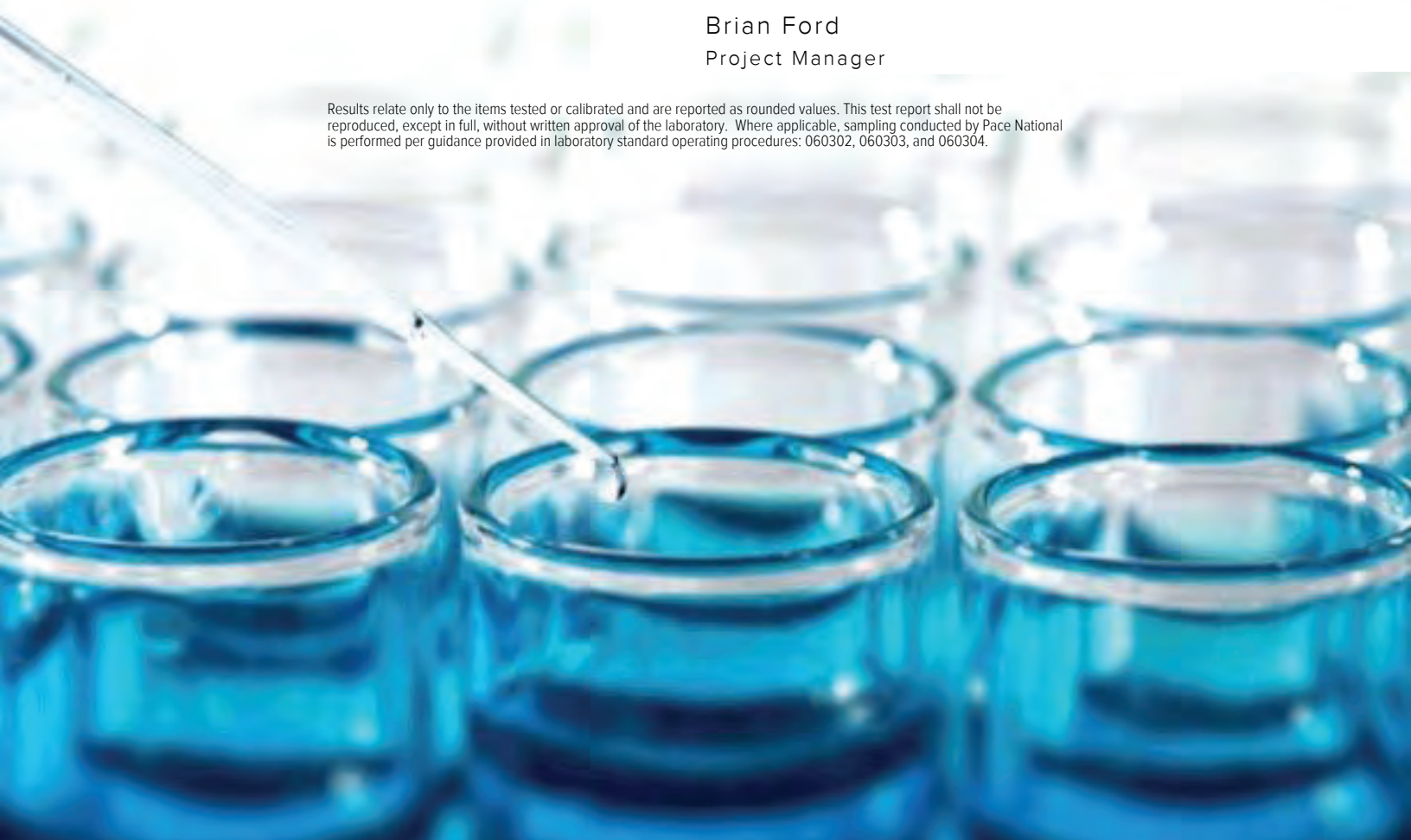
Sample Delivery Group: L1065738
Samples Received: 01/31/2019
Project Number: 1413.001.05.304
Description: American Linen
Site: AMERICAN LINEN
Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford
Project Manager

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 Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.





Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	7
Sr: Sample Results	8
MW-162-48 L1065738-01	8
MW-162-50 L1065738-02	10
B-930-50 L1065738-03	12
MW-162-67 L1065738-04	14
MW-162-70 L1065738-05	16
MW-162-72 L1065738-06	18
MW-162-80 L1065738-07	20
MW-162-85 L1065738-08	22
MW-162-90 L1065738-09	24
MW-162-95 L1065738-10	26
MW-162-100 L1065738-11	28
MW-162-105 L1065738-12	30
MW-162-110 L1065738-13	32
MW-163-47 L1065738-14	34
MW-163-50 L1065738-15	36
MW-163-55 L1065738-16	38
MW-163-60 L1065738-17	40
MW-163-80 L1065738-18	42
MW-163-85 L1065738-19	44
MW-163-90 L1065738-20	46
TRIPBLANK-013019 L1065738-21	48
MW-163-95 L1065738-22	50
MW-163-100 L1065738-23	52
MW-163-105 L1065738-24	54
MW-163-110 L1065738-25	56
Qc: Quality Control Summary	58
Total Solids by Method 2540 G-2011	58
Volatile Organic Compounds (GC/MS) by Method 8260C	61
Gl: Glossary of Terms	80
Al: Accreditations & Locations	81
Sc: Sample Chain of Custody	82

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-162-48 L1065738-01 Solid

Collected by
Shannon McKernan

Collected date/time
01/28/19 11:38

Received date/time
01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231191	1	02/01/19 13:14	02/01/19 13:27	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231932	20	01/31/19 19:32	02/03/19 12:15	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1232204	20	01/31/19 19:32	02/04/19 15:17	DWR

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-162-50 L1065738-02 Solid

Collected by
Shannon McKernan

Collected date/time
01/28/19 11:40

Received date/time
01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231191	1	02/01/19 13:14	02/01/19 13:27	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231708	1	01/31/19 19:32	02/02/19 14:08	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231857	20	01/31/19 19:32	02/03/19 16:35	DWR

B-930-50 L1065738-03 Solid

Collected by
Shannon McKernan

Collected date/time
01/28/19 11:42

Received date/time
01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231191	1	02/01/19 13:14	02/01/19 13:27	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231708	1	01/31/19 19:32	02/02/19 14:29	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231857	40	01/31/19 19:32	02/03/19 16:54	DWR

MW-162-67 L1065738-04 Solid

Collected by
Shannon McKernan

Collected date/time
01/28/19 12:55

Received date/time
01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231191	1	02/01/19 13:14	02/01/19 13:27	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231708	1	01/31/19 19:32	02/02/19 14:49	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231857	20	01/31/19 19:32	02/03/19 17:13	DWR

MW-162-70 L1065738-05 Solid

Collected by
Shannon McKernan

Collected date/time
01/28/19 12:20

Received date/time
01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231191	1	02/01/19 13:14	02/01/19 13:27	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231708	1	01/31/19 19:32	02/02/19 15:09	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231857	40	01/31/19 19:32	02/03/19 17:32	DWR

MW-162-72 L1065738-06 Solid

Collected by
Shannon McKernan

Collected date/time
01/28/19 12:58

Received date/time
01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231191	1	02/01/19 13:14	02/01/19 13:27	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231708	1	01/31/19 19:32	02/02/19 15:29	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231857	40	01/31/19 19:32	02/03/19 17:51	DWR

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

1413.001.05.304

SDG:

L1065738

DATE/TIME:

02/04/19 20:54

PAGE:

3 of 85

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-162-80 L1065738-07 Solid

Collected by
Shannon McKernan

Collected date/time
01/28/19 12:05

Received date/time
01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231191	1	02/01/19 13:14	02/01/19 13:27	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231708	1	01/31/19 19:32	02/02/19 15:49	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231857	1	01/31/19 19:32	02/03/19 13:24	DWR

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-162-85 L1065738-08 Solid

Collected by
Shannon McKernan

Collected date/time
01/28/19 13:55

Received date/time
01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231192	1	02/01/19 11:18	02/01/19 13:11	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231708	1	01/31/19 19:32	02/02/19 16:10	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231857	1	01/31/19 19:32	02/03/19 13:43	DWR

MW-162-90 L1065738-09 Solid

Collected by
Shannon McKernan

Collected date/time
01/28/19 14:00

Received date/time
01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231192	1	02/01/19 11:18	02/01/19 13:11	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231708	1	01/31/19 19:32	02/02/19 16:30	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231857	1	01/31/19 19:32	02/03/19 14:03	DWR

MW-162-95 L1065738-10 Solid

Collected by
Shannon McKernan

Collected date/time
01/28/19 14:25

Received date/time
01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231192	1	02/01/19 11:18	02/01/19 13:11	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231708	1	01/31/19 19:32	02/02/19 16:50	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231857	1	01/31/19 19:32	02/03/19 14:22	DWR

MW-162-100 L1065738-11 Solid

Collected by
Shannon McKernan

Collected date/time
01/28/19 14:30

Received date/time
01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231192	1	02/01/19 11:18	02/01/19 13:11	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231708	1	01/31/19 19:32	02/02/19 17:10	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231857	1	01/31/19 19:32	02/03/19 14:41	DWR

MW-162-105 L1065738-12 Solid

Collected by
Shannon McKernan

Collected date/time
01/28/19 14:45

Received date/time
01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231192	1	02/01/19 11:18	02/01/19 13:11	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231708	1	01/31/19 19:32	02/02/19 17:31	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231857	1	01/31/19 19:32	02/03/19 15:00	DWR

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-162-110 L1065738-13 Solid

Collected by
Shannon McKernan

Collected date/time
01/28/19 14:47

Received date/time
01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231192	1	02/01/19 11:18	02/01/19 13:11	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231708	1	01/31/19 19:32	02/02/19 17:51	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231857	1	01/31/19 19:32	02/03/19 15:19	DWR

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-163-47 L1065738-14 Solid

Collected by
Shannon McKernan

Collected date/time
01/29/19 11:03

Received date/time
01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231192	1	02/01/19 11:18	02/01/19 13:11	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231708	1	01/31/19 19:32	02/02/19 18:11	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231857	20	01/31/19 19:32	02/03/19 18:09	DWR

MW-163-50 L1065738-15 Solid

Collected by
Shannon McKernan

Collected date/time
01/29/19 11:05

Received date/time
01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231192	1	02/01/19 11:18	02/01/19 13:11	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231708	1	01/31/19 19:32	02/02/19 18:31	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231857	20	01/31/19 19:32	02/03/19 18:29	DWR

MW-163-55 L1065738-16 Solid

Collected by
Shannon McKernan

Collected date/time
01/29/19 11:07

Received date/time
01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231192	1	02/01/19 11:18	02/01/19 13:11	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231708	1.12	01/31/19 19:32	02/02/19 18:52	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231857	22.4	01/31/19 19:32	02/03/19 18:47	DWR

MW-163-60 L1065738-17 Solid

Collected by
Shannon McKernan

Collected date/time
01/29/19 11:09

Received date/time
01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231192	1	02/01/19 11:18	02/01/19 13:11	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231708	1	01/31/19 19:32	02/02/19 19:12	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231857	20	01/31/19 19:32	02/03/19 19:06	DWR

MW-163-80 L1065738-18 Solid

Collected by
Shannon McKernan

Collected date/time
01/29/19 11:55

Received date/time
01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231193	1	02/01/19 11:07	02/01/19 11:16	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231708	1	01/31/19 19:32	02/02/19 19:32	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231857	1	01/31/19 19:32	02/03/19 15:38	DWR

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

1413.001.05.304

SDG:

L1065738

DATE/TIME:

02/04/19 20:54

PAGE:

5 of 85

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-163-85 L1065738-19 Solid

Collected by Shannon McKernan
Collected date/time 01/29/19 11:57
Received date/time 01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231193	1	02/01/19 11:07	02/01/19 11:16	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231708	1	01/31/19 19:32	02/02/19 19:53	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231857	1	01/31/19 19:32	02/03/19 15:57	DWR

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-163-90 L1065738-20 Solid

Collected by Shannon McKernan
Collected date/time 01/29/19 11:59
Received date/time 01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231193	1	02/01/19 11:07	02/01/19 11:16	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231708	1	01/31/19 19:32	02/02/19 20:13	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231857	1	01/31/19 19:32	02/03/19 16:16	DWR

TRIPBLANK-013019 L1065738-21 GW

Collected by Shannon McKernan
Collected date/time 01/28/19 00:00
Received date/time 01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231554	1	02/01/19 17:59	02/01/19 17:59	JAH

MW-163-95 L1065738-22 Solid

Collected by Shannon McKernan
Collected date/time 01/29/19 14:52
Received date/time 01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231193	1	02/01/19 11:07	02/01/19 11:16	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231732	1	01/31/19 19:32	02/02/19 18:02	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231920	1	01/31/19 19:32	02/03/19 12:08	DWR

MW-163-100 L1065738-23 Solid

Collected by Shannon McKernan
Collected date/time 01/29/19 14:55
Received date/time 01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231193	1	02/01/19 11:07	02/01/19 11:16	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231732	1	01/31/19 19:32	02/02/19 18:22	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231920	1	01/31/19 19:32	02/03/19 12:27	DWR

MW-163-105 L1065738-24 Solid

Collected by Shannon McKernan
Collected date/time 01/29/19 15:00
Received date/time 01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231193	1	02/01/19 11:07	02/01/19 11:16	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231732	1	01/31/19 19:32	02/02/19 18:42	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231920	1	01/31/19 19:32	02/03/19 12:46	DWR

MW-163-110 L1065738-25 Solid

Collected by Shannon McKernan
Collected date/time 01/29/19 15:02
Received date/time 01/31/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231193	1	02/01/19 11:07	02/01/19 11:16	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231732	1	01/31/19 19:32	02/02/19 19:02	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231920	1	01/31/19 19:32	02/03/19 13:05	DWR



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, 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
Project Manager

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	92.4		1	02/01/2019 13:27	WG1231191

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.296	0.541	20	02/04/2019 15:17	WG1232204
Acrylonitrile	U		0.0411	0.270	20	02/03/2019 12:15	WG1231932
Benzene	U		0.00865	0.0216	20	02/03/2019 12:15	WG1231932
Bromobenzene	U		0.0227	0.270	20	02/03/2019 12:15	WG1231932
Bromodichloromethane	U		0.0171	0.0541	20	02/03/2019 12:15	WG1231932
Bromochloromethane	U		0.0245	0.108	20	02/03/2019 12:15	WG1231932
Bromoform	U		0.130	0.541	20	02/03/2019 12:15	WG1231932
Bromomethane	U		0.0801	0.270	20	02/03/2019 12:15	WG1231932
n-Butylbenzene	U		0.0831	0.270	20	02/03/2019 12:15	WG1231932
sec-Butylbenzene	U		0.0547	0.270	20	02/03/2019 12:15	WG1231932
tert-Butylbenzene	U		0.0335	0.108	20	02/03/2019 12:15	WG1231932
Carbon disulfide	U		0.0878	0.270	20	02/03/2019 12:15	WG1231932
Carbon tetrachloride	U		0.0234	0.108	20	02/03/2019 12:15	WG1231932
Chlorobenzene	U		0.0124	0.0541	20	02/03/2019 12:15	WG1231932
Chlorodibromomethane	U		0.00974	0.0541	20	02/03/2019 12:15	WG1231932
Chloroethane	U		0.0234	0.108	20	02/03/2019 12:15	WG1231932
Chloroform	U		0.00898	0.0541	20	02/03/2019 12:15	WG1231932
Chloromethane	U		0.0301	0.270	20	02/03/2019 12:15	WG1231932
2-Chlorotoluene	U		0.0199	0.0541	20	02/03/2019 12:15	WG1231932
4-Chlorotoluene	U		0.0245	0.108	20	02/03/2019 12:15	WG1231932
1,2-Dibromo-3-Chloropropane	U		0.110	0.541	20	02/03/2019 12:15	WG1231932
1,2-Dibromoethane	U		0.0114	0.0541	20	02/03/2019 12:15	WG1231932
Dibromomethane	U		0.0216	0.108	20	02/03/2019 12:15	WG1231932
1,2-Dichlorobenzene	U		0.0314	0.108	20	02/03/2019 12:15	WG1231932
1,3-Dichlorobenzene	U		0.0368	0.108	20	02/03/2019 12:15	WG1231932
1,4-Dichlorobenzene	U		0.0426	0.108	20	02/03/2019 12:15	WG1231932
Dichlorodifluoromethane	U		0.0177	0.0541	20	02/03/2019 12:15	WG1231932
1,1-Dichloroethane	U		0.0124	0.0541	20	02/03/2019 12:15	WG1231932
1,2-Dichloroethane	U		0.0103	0.0541	20	02/03/2019 12:15	WG1231932
1,1-Dichloroethene	U		0.0108	0.0541	20	02/03/2019 12:15	WG1231932
cis-1,2-Dichloroethene	1.57		0.0149	0.0541	20	02/03/2019 12:15	WG1231932
trans-1,2-Dichloroethene	U		0.0309	0.108	20	02/03/2019 12:15	WG1231932
1,2-Dichloropropane	U	J4	0.0275	0.108	20	02/04/2019 15:17	WG1232204
1,1-Dichloropropene	U		0.0151	0.0541	20	02/03/2019 12:15	WG1231932
1,3-Dichloropropane	U		0.0379	0.108	20	02/03/2019 12:15	WG1231932
cis-1,3-Dichloropropene	U		0.0147	0.0541	20	02/03/2019 12:15	WG1231932
trans-1,3-Dichloropropene	U		0.0331	0.108	20	02/03/2019 12:15	WG1231932
trans-1,4-Dichloro-2-butene	U		0.0303	0.108	20	02/03/2019 12:15	WG1231932
2,2-Dichloropropane	U		0.0172	0.0541	20	02/03/2019 12:15	WG1231932
Di-isopropyl ether	U		0.00757	0.0216	20	02/03/2019 12:15	WG1231932
Ethylbenzene	U		0.0115	0.0541	20	02/03/2019 12:15	WG1231932
Hexachloro-1,3-butadiene	U		0.275	0.541	20	02/03/2019 12:15	WG1231932
2-Hexanone	U		0.216	0.541	20	02/03/2019 12:15	WG1231932
n-Hexane	U		0.0229	0.108	20	02/03/2019 12:15	WG1231932
Iodomethane	U		0.131	0.270	20	02/03/2019 12:15	WG1231932
Isopropylbenzene	U		0.0187	0.0541	20	02/03/2019 12:15	WG1231932
p-Isopropyltoluene	U		0.0504	0.108	20	02/03/2019 12:15	WG1231932
2-Butanone (MEK)	U		0.270	0.541	20	02/04/2019 15:17	WG1232204
Methylene Chloride	U		0.144	0.541	20	02/03/2019 12:15	WG1231932
4-Methyl-2-pentanone (MIBK)	U		0.216	0.541	20	02/03/2019 12:15	WG1231932

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		0.00638	0.0216	20	02/03/2019 12:15	WG1231932
Naphthalene	U		0.0675	0.270	20	02/03/2019 12:15	WG1231932
n-Propylbenzene	U		0.0255	0.108	20	02/03/2019 12:15	WG1231932
Styrene	U		0.0591	0.270	20	02/03/2019 12:15	WG1231932
1,1,1,2-Tetrachloroethane	U		0.0108	0.0541	20	02/03/2019 12:15	WG1231932
1,1,2,2-Tetrachloroethane	U		0.00844	0.0541	20	02/03/2019 12:15	WG1231932
1,1,2-Trichlorotrifluoroethane	U		0.0146	0.0541	20	02/03/2019 12:15	WG1231932
Tetrachloroethene	34.1		0.0151	0.0541	20	02/03/2019 12:15	WG1231932
Toluene	U		0.0270	0.108	20	02/03/2019 12:15	WG1231932
1,2,3-Trichlorobenzene	U		0.0135	0.0541	20	02/03/2019 12:15	WG1231932
1,2,4-Trichlorobenzene	U		0.104	0.270	20	02/03/2019 12:15	WG1231932
1,1,1-Trichloroethane	U		0.00595	0.0541	20	02/03/2019 12:15	WG1231932
1,1,2-Trichloroethane	U		0.0191	0.0541	20	02/03/2019 12:15	WG1231932
Trichloroethene	4.66		0.00865	0.0216	20	02/03/2019 12:15	WG1231932
Trichlorofluoromethane	U		0.0108	0.0541	20	02/03/2019 12:15	WG1231932
1,2,3-Trichloropropane	U		0.110	0.270	20	02/03/2019 12:15	WG1231932
1,2,4-Trimethylbenzene	U		0.0251	0.108	20	02/03/2019 12:15	WG1231932
1,2,3-Trimethylbenzene	U		0.0249	0.108	20	02/03/2019 12:15	WG1231932
1,3,5-Trimethylbenzene	U		0.0234	0.108	20	02/03/2019 12:15	WG1231932
Vinyl acetate	U		0.0762	0.270	20	02/03/2019 12:15	WG1231932
Vinyl chloride	U		0.0148	0.0541	20	02/03/2019 12:15	WG1231932
Xylenes, Total	U		0.103	0.141	20	02/03/2019 12:15	WG1231932
(S) Toluene-d8	103			75.0-131		02/03/2019 12:15	WG1231932
(S) Toluene-d8	75.4			75.0-131		02/04/2019 15:17	WG1232204
(S) Dibromofluoromethane	92.6			65.0-129		02/03/2019 12:15	WG1231932
(S) Dibromofluoromethane	133	J1		65.0-129		02/04/2019 15:17	WG1232204
(S) 4-Bromofluorobenzene	94.6			67.0-138		02/03/2019 12:15	WG1231932
(S) 4-Bromofluorobenzene	109			67.0-138		02/04/2019 15:17	WG1232204

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	85.6		1	02/01/2019 13:27	WG1231191

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.320	0.584	20	02/03/2019 16:35	WG1231857
Acrylonitrile	U		0.00222	0.0146	1	02/02/2019 14:08	WG1231708
Benzene	U		0.000467	0.00117	1	02/02/2019 14:08	WG1231708
Bromobenzene	U		0.00123	0.0146	1	02/02/2019 14:08	WG1231708
Bromodichloromethane	U		0.000921	0.00292	1	02/02/2019 14:08	WG1231708
Bromochloromethane	U		0.00132	0.00584	1	02/02/2019 14:08	WG1231708
Bromoform	U		0.00699	0.0292	1	02/02/2019 14:08	WG1231708
Bromomethane	U		0.00432	0.0146	1	02/02/2019 14:08	WG1231708
n-Butylbenzene	U		0.00449	0.0146	1	02/02/2019 14:08	WG1231708
sec-Butylbenzene	U		0.00296	0.0146	1	02/02/2019 14:08	WG1231708
tert-Butylbenzene	U		0.00181	0.00584	1	02/02/2019 14:08	WG1231708
Carbon disulfide	U	JO	0.00474	0.0146	1	02/02/2019 14:08	WG1231708
Carbon tetrachloride	U		0.00126	0.00584	1	02/02/2019 14:08	WG1231708
Chlorobenzene	U		0.000669	0.00292	1	02/02/2019 14:08	WG1231708
Chlorodibromomethane	U		0.000526	0.00292	1	02/02/2019 14:08	WG1231708
Chloroethane	U		0.00126	0.00584	1	02/02/2019 14:08	WG1231708
Chloroform	U		0.000485	0.00292	1	02/02/2019 14:08	WG1231708
Chloromethane	U		0.00162	0.0146	1	02/02/2019 14:08	WG1231708
2-Chlorotoluene	U		0.00107	0.00292	1	02/02/2019 14:08	WG1231708
4-Chlorotoluene	U		0.00132	0.00584	1	02/02/2019 14:08	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00596	0.0292	1	02/02/2019 14:08	WG1231708
1,2-Dibromoethane	U		0.000613	0.00292	1	02/02/2019 14:08	WG1231708
Dibromomethane	U		0.00117	0.00584	1	02/02/2019 14:08	WG1231708
1,2-Dichlorobenzene	U		0.00169	0.00584	1	02/02/2019 14:08	WG1231708
1,3-Dichlorobenzene	U		0.00199	0.00584	1	02/02/2019 14:08	WG1231708
1,4-Dichlorobenzene	U		0.00230	0.00584	1	02/02/2019 14:08	WG1231708
Dichlorodifluoromethane	U		0.000956	0.00292	1	02/02/2019 14:08	WG1231708
1,1-Dichloroethane	U		0.000672	0.00292	1	02/02/2019 14:08	WG1231708
1,2-Dichloroethane	U		0.000555	0.00292	1	02/02/2019 14:08	WG1231708
1,1-Dichloroethene	0.00746		0.000584	0.00292	1	02/02/2019 14:08	WG1231708
cis-1,2-Dichloroethene	0.766		0.000806	0.00292	1	02/02/2019 14:08	WG1231708
trans-1,2-Dichloroethene	0.00213	J	0.00167	0.00584	1	02/02/2019 14:08	WG1231708
1,2-Dichloropropane	U		0.0297	0.117	20	02/03/2019 16:35	WG1231857
1,1-Dichloropropene	U		0.000818	0.00292	1	02/02/2019 14:08	WG1231708
1,3-Dichloropropane	U		0.00204	0.00584	1	02/02/2019 14:08	WG1231708
cis-1,3-Dichloropropene	U		0.000792	0.00292	1	02/02/2019 14:08	WG1231708
trans-1,3-Dichloropropene	U		0.00179	0.00584	1	02/02/2019 14:08	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00164	0.00584	1	02/02/2019 14:08	WG1231708
2,2-Dichloropropane	U		0.000926	0.00292	1	02/02/2019 14:08	WG1231708
Di-isopropyl ether	U		0.000409	0.00117	1	02/02/2019 14:08	WG1231708
Ethylbenzene	U		0.000619	0.00292	1	02/02/2019 14:08	WG1231708
Hexachloro-1,3-butadiene	U		0.0148	0.0292	1	02/02/2019 14:08	WG1231708
2-Hexanone	U		0.0117	0.0292	1	02/02/2019 14:08	WG1231708
n-Hexane	U		0.00124	0.00584	1	02/02/2019 14:08	WG1231708
Iodomethane	U		0.00707	0.0146	1	02/02/2019 14:08	WG1231708
Isopropylbenzene	U		0.00101	0.00292	1	02/02/2019 14:08	WG1231708
p-Isopropyltoluene	U		0.00272	0.00584	1	02/02/2019 14:08	WG1231708
2-Butanone (MEK)	U		0.292	0.584	20	02/03/2019 16:35	WG1231857
Methylene Chloride	U		0.00776	0.0292	1	02/02/2019 14:08	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0292	1	02/02/2019 14:08	WG1231708

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		0.000345	0.00117	1	02/02/2019 14:08	WG1231708
Naphthalene	U		0.00364	0.0146	1	02/02/2019 14:08	WG1231708
n-Propylbenzene	U		0.00138	0.00584	1	02/02/2019 14:08	WG1231708
Styrene	U		0.00319	0.0146	1	02/02/2019 14:08	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000584	0.00292	1	02/02/2019 14:08	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000456	0.00292	1	02/02/2019 14:08	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000789	0.00292	1	02/02/2019 14:08	WG1231708
Tetrachloroethene	5.26		0.0164	0.0584	20	02/03/2019 16:35	WG1231857
Toluene	U		0.00146	0.00584	1	02/02/2019 14:08	WG1231708
1,2,3-Trichlorobenzene	U		0.000730	0.00292	1	02/02/2019 14:08	WG1231708
1,2,4-Trichlorobenzene	U		0.00563	0.0146	1	02/02/2019 14:08	WG1231708
1,1,1-Trichloroethane	U		0.000321	0.00292	1	02/02/2019 14:08	WG1231708
1,1,2-Trichloroethane	U		0.00103	0.00292	1	02/02/2019 14:08	WG1231708
Trichloroethene	1.11		0.000467	0.00117	1	02/02/2019 14:08	WG1231708
Trichlorofluoromethane	U		0.000584	0.00292	1	02/02/2019 14:08	WG1231708
1,2,3-Trichloropropane	U		0.00596	0.0146	1	02/02/2019 14:08	WG1231708
1,2,4-Trimethylbenzene	U		0.00136	0.00584	1	02/02/2019 14:08	WG1231708
1,2,3-Trimethylbenzene	U		0.00134	0.00584	1	02/02/2019 14:08	WG1231708
1,3,5-Trimethylbenzene	U		0.00126	0.00584	1	02/02/2019 14:08	WG1231708
Vinyl acetate	U		0.00411	0.0146	1	02/02/2019 14:08	WG1231708
Vinyl chloride	0.00368		0.000798	0.00292	1	02/02/2019 14:08	WG1231708
Xylenes, Total	U		0.00558	0.00759	1	02/02/2019 14:08	WG1231708
(S) Toluene-d8	116			75.0-131		02/02/2019 14:08	WG1231708
(S) Toluene-d8	92.7			75.0-131		02/03/2019 16:35	WG1231857
(S) Dibromofluoromethane	74.8			65.0-129		02/02/2019 14:08	WG1231708
(S) Dibromofluoromethane	134	J1		65.0-129		02/03/2019 16:35	WG1231857
(S) 4-Bromofluorobenzene	105			67.0-138		02/02/2019 14:08	WG1231708
(S) 4-Bromofluorobenzene	103			67.0-138		02/03/2019 16:35	WG1231857

Sample Narrative:

L1065738-02 WG1231857, WG1231708: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

L1065738-02 WG1231857, WG1231708: Not all compounds reportable at lower dilution.

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	89.9		1	02/01/2019 13:27	WG1231191

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.609	1.11	40	02/03/2019 16:54	WG1231857
Acrylonitrile	U		0.00211	0.0139	1	02/02/2019 14:29	WG1231708
Benzene	0.000494	J	0.000445	0.00111	1	02/02/2019 14:29	WG1231708
Bromobenzene	U		0.00117	0.0139	1	02/02/2019 14:29	WG1231708
Bromodichloromethane	U		0.000876	0.00278	1	02/02/2019 14:29	WG1231708
Bromochloromethane	U		0.00126	0.00556	1	02/02/2019 14:29	WG1231708
Bromoform	U		0.00665	0.0278	1	02/02/2019 14:29	WG1231708
Bromomethane	U		0.00411	0.0139	1	02/02/2019 14:29	WG1231708
n-Butylbenzene	U		0.00427	0.0139	1	02/02/2019 14:29	WG1231708
sec-Butylbenzene	U		0.00281	0.0139	1	02/02/2019 14:29	WG1231708
tert-Butylbenzene	U		0.00172	0.00556	1	02/02/2019 14:29	WG1231708
Carbon disulfide	U	JO	0.00451	0.0139	1	02/02/2019 14:29	WG1231708
Carbon tetrachloride	U		0.00120	0.00556	1	02/02/2019 14:29	WG1231708
Chlorobenzene	U		0.000637	0.00278	1	02/02/2019 14:29	WG1231708
Chlorodibromomethane	U		0.000500	0.00278	1	02/02/2019 14:29	WG1231708
Chloroethane	U		0.00120	0.00556	1	02/02/2019 14:29	WG1231708
Chloroform	U		0.000461	0.00278	1	02/02/2019 14:29	WG1231708
Chloromethane	U		0.00155	0.0139	1	02/02/2019 14:29	WG1231708
2-Chlorotoluene	U		0.00102	0.00278	1	02/02/2019 14:29	WG1231708
4-Chlorotoluene	U		0.00126	0.00556	1	02/02/2019 14:29	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00567	0.0278	1	02/02/2019 14:29	WG1231708
1,2-Dibromoethane	U		0.000584	0.00278	1	02/02/2019 14:29	WG1231708
Dibromomethane	U		0.00111	0.00556	1	02/02/2019 14:29	WG1231708
1,2-Dichlorobenzene	U		0.00161	0.00556	1	02/02/2019 14:29	WG1231708
1,3-Dichlorobenzene	U		0.00189	0.00556	1	02/02/2019 14:29	WG1231708
1,4-Dichlorobenzene	U		0.00219	0.00556	1	02/02/2019 14:29	WG1231708
Dichlorodifluoromethane	U		0.000909	0.00278	1	02/02/2019 14:29	WG1231708
1,1-Dichloroethane	U		0.000639	0.00278	1	02/02/2019 14:29	WG1231708
1,2-Dichloroethane	U		0.000528	0.00278	1	02/02/2019 14:29	WG1231708
1,1-Dichloroethene	0.0332		0.000556	0.00278	1	02/02/2019 14:29	WG1231708
cis-1,2-Dichloroethene	7.57		0.0307	0.111	40	02/03/2019 16:54	WG1231857
trans-1,2-Dichloroethene	0.0107		0.00159	0.00556	1	02/02/2019 14:29	WG1231708
1,2-Dichloropropane	U		0.0565	0.222	40	02/03/2019 16:54	WG1231857
1,1-Dichloropropene	U		0.000778	0.00278	1	02/02/2019 14:29	WG1231708
1,3-Dichloropropane	U		0.00195	0.00556	1	02/02/2019 14:29	WG1231708
cis-1,3-Dichloropropene	U		0.000754	0.00278	1	02/02/2019 14:29	WG1231708
trans-1,3-Dichloropropene	U		0.00170	0.00556	1	02/02/2019 14:29	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00156	0.00556	1	02/02/2019 14:29	WG1231708
2,2-Dichloropropane	U		0.000882	0.00278	1	02/02/2019 14:29	WG1231708
Di-isopropyl ether	U		0.000389	0.00111	1	02/02/2019 14:29	WG1231708
Ethylbenzene	U		0.000589	0.00278	1	02/02/2019 14:29	WG1231708
Hexachloro-1,3-butadiene	U		0.0141	0.0278	1	02/02/2019 14:29	WG1231708
2-Hexanone	U		0.0111	0.0278	1	02/02/2019 14:29	WG1231708
n-Hexane	U		0.00118	0.00556	1	02/02/2019 14:29	WG1231708
Iodomethane	U		0.00673	0.0139	1	02/02/2019 14:29	WG1231708
Isopropylbenzene	U		0.000959	0.00278	1	02/02/2019 14:29	WG1231708
p-Isopropyltoluene	U		0.00259	0.00556	1	02/02/2019 14:29	WG1231708
2-Butanone (MEK)	U		0.556	1.11	40	02/03/2019 16:54	WG1231857
Methylene Chloride	U		0.00738	0.0278	1	02/02/2019 14:29	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0278	1	02/02/2019 14:29	WG1231708

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/28/19 11:42

L1065738

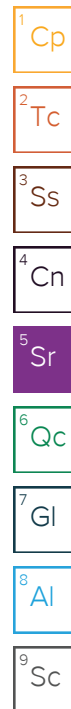
Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000328	0.00111	1	02/02/2019 14:29	WG1231708
Naphthalene	U		0.00347	0.0139	1	02/02/2019 14:29	WG1231708
n-Propylbenzene	U		0.00131	0.00556	1	02/02/2019 14:29	WG1231708
Styrene	U		0.00304	0.0139	1	02/02/2019 14:29	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000556	0.00278	1	02/02/2019 14:29	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000434	0.00278	1	02/02/2019 14:29	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000750	0.00278	1	02/02/2019 14:29	WG1231708
Tetrachloroethene	13.7		0.0311	0.111	40	02/03/2019 16:54	WG1231857
Toluene	0.00462	J	0.00139	0.00556	1	02/02/2019 14:29	WG1231708
1,2,3-Trichlorobenzene	U		0.000695	0.00278	1	02/02/2019 14:29	WG1231708
1,2,4-Trichlorobenzene	U		0.00536	0.0139	1	02/02/2019 14:29	WG1231708
1,1,1-Trichloroethane	U		0.000306	0.00278	1	02/02/2019 14:29	WG1231708
1,1,2-Trichloroethane	U		0.000982	0.00278	1	02/02/2019 14:29	WG1231708
Trichloroethene	5.91	J4	0.0178	0.0445	40	02/03/2019 16:54	WG1231857
Trichlorofluoromethane	U		0.000556	0.00278	1	02/02/2019 14:29	WG1231708
1,2,3-Trichloropropane	U		0.00567	0.0139	1	02/02/2019 14:29	WG1231708
1,2,4-Trimethylbenzene	0.00147	J	0.00129	0.00556	1	02/02/2019 14:29	WG1231708
1,2,3-Trimethylbenzene	0.00136	J	0.00128	0.00556	1	02/02/2019 14:29	WG1231708
1,3,5-Trimethylbenzene	U		0.00120	0.00556	1	02/02/2019 14:29	WG1231708
Vinyl acetate	U		0.00391	0.0139	1	02/02/2019 14:29	WG1231708
Vinyl chloride	0.0124		0.000759	0.00278	1	02/02/2019 14:29	WG1231708
Xylenes, Total	U		0.00531	0.00723	1	02/02/2019 14:29	WG1231708
(S) Toluene-d8	102			75.0-131		02/02/2019 14:29	WG1231708
(S) Toluene-d8	92.7			75.0-131		02/03/2019 16:54	WG1231857
(S) Dibromofluoromethane	81.9			65.0-129		02/02/2019 14:29	WG1231708
(S) Dibromofluoromethane	128			65.0-129		02/03/2019 16:54	WG1231857
(S) 4-Bromofluorobenzene	106			67.0-138		02/02/2019 14:29	WG1231708
(S) 4-Bromofluorobenzene	98.6			67.0-138		02/03/2019 16:54	WG1231857

Sample Narrative:

L1065738-03 WG1231857, WG1231708: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

L1065738-03 WG1231857, WG1231708: Not all compounds reportable at lower dilution.





Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.1		1	02/01/2019 13:27	WG1231191

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.736		0.318	0.581	20	02/03/2019 17:13	WG1231857
Acrylonitrile	U		0.00221	0.0145	1	02/02/2019 14:49	WG1231708
Benzene	U		0.000465	0.00116	1	02/02/2019 14:49	WG1231708
Bromobenzene	U		0.00122	0.0145	1	02/02/2019 14:49	WG1231708
Bromodichloromethane	U		0.000915	0.00290	1	02/02/2019 14:49	WG1231708
Bromochloromethane	U		0.00131	0.00581	1	02/02/2019 14:49	WG1231708
Bromoform	U		0.00695	0.0290	1	02/02/2019 14:49	WG1231708
Bromomethane	U		0.00430	0.0145	1	02/02/2019 14:49	WG1231708
n-Butylbenzene	U		0.00446	0.0145	1	02/02/2019 14:49	WG1231708
sec-Butylbenzene	U		0.00294	0.0145	1	02/02/2019 14:49	WG1231708
tert-Butylbenzene	U		0.00180	0.00581	1	02/02/2019 14:49	WG1231708
Carbon disulfide	U	JO	0.00472	0.0145	1	02/02/2019 14:49	WG1231708
Carbon tetrachloride	U		0.00125	0.00581	1	02/02/2019 14:49	WG1231708
Chlorobenzene	U		0.000666	0.00290	1	02/02/2019 14:49	WG1231708
Chlorodibromomethane	U		0.000523	0.00290	1	02/02/2019 14:49	WG1231708
Chloroethane	U		0.00125	0.00581	1	02/02/2019 14:49	WG1231708
Chloroform	U		0.000482	0.00290	1	02/02/2019 14:49	WG1231708
Chloromethane	U		0.00161	0.0145	1	02/02/2019 14:49	WG1231708
2-Chlorotoluene	U		0.00107	0.00290	1	02/02/2019 14:49	WG1231708
4-Chlorotoluene	U		0.00131	0.00581	1	02/02/2019 14:49	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00592	0.0290	1	02/02/2019 14:49	WG1231708
1,2-Dibromoethane	U		0.000610	0.00290	1	02/02/2019 14:49	WG1231708
Dibromomethane	U		0.00116	0.00581	1	02/02/2019 14:49	WG1231708
1,2-Dichlorobenzene	U		0.00168	0.00581	1	02/02/2019 14:49	WG1231708
1,3-Dichlorobenzene	U		0.00197	0.00581	1	02/02/2019 14:49	WG1231708
1,4-Dichlorobenzene	U		0.00229	0.00581	1	02/02/2019 14:49	WG1231708
Dichlorodifluoromethane	U		0.000950	0.00290	1	02/02/2019 14:49	WG1231708
1,1-Dichloroethane	U		0.000668	0.00290	1	02/02/2019 14:49	WG1231708
1,2-Dichloroethane	U		0.000552	0.00290	1	02/02/2019 14:49	WG1231708
1,1-Dichloroethene	0.000967	J	0.000581	0.00290	1	02/02/2019 14:49	WG1231708
cis-1,2-Dichloroethene	0.253		0.000801	0.00290	1	02/02/2019 14:49	WG1231708
trans-1,2-Dichloroethene	U		0.00166	0.00581	1	02/02/2019 14:49	WG1231708
1,2-Dichloropropane	U		0.0295	0.116	20	02/03/2019 17:13	WG1231857
1,1-Dichloropropene	U		0.000813	0.00290	1	02/02/2019 14:49	WG1231708
1,3-Dichloropropane	U		0.00203	0.00581	1	02/02/2019 14:49	WG1231708
cis-1,3-Dichloropropene	U		0.000787	0.00290	1	02/02/2019 14:49	WG1231708
trans-1,3-Dichloropropene	U		0.00178	0.00581	1	02/02/2019 14:49	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00163	0.00581	1	02/02/2019 14:49	WG1231708
2,2-Dichloropropane	U		0.000921	0.00290	1	02/02/2019 14:49	WG1231708
Di-isopropyl ether	U		0.000407	0.00116	1	02/02/2019 14:49	WG1231708
Ethylbenzene	U		0.000616	0.00290	1	02/02/2019 14:49	WG1231708
Hexachloro-1,3-butadiene	U		0.0148	0.0290	1	02/02/2019 14:49	WG1231708
2-Hexanone	U		0.0116	0.0290	1	02/02/2019 14:49	WG1231708
n-Hexane	U		0.00123	0.00581	1	02/02/2019 14:49	WG1231708
Iodomethane	U		0.00703	0.0145	1	02/02/2019 14:49	WG1231708
Isopropylbenzene	U		0.00100	0.00290	1	02/02/2019 14:49	WG1231708
p-Isopropyltoluene	U		0.00271	0.00581	1	02/02/2019 14:49	WG1231708
2-Butanone (MEK)	U		0.290	0.581	20	02/03/2019 17:13	WG1231857
Methylene Chloride	U		0.00771	0.0290	1	02/02/2019 14:49	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1	02/02/2019 14:49	WG1231708

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



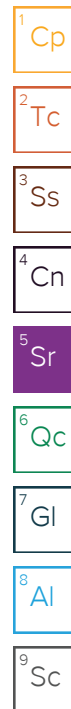
Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000343	0.00116	1	02/02/2019 14:49	WG1231708
Naphthalene	U		0.00362	0.0145	1	02/02/2019 14:49	WG1231708
n-Propylbenzene	U		0.00137	0.00581	1	02/02/2019 14:49	WG1231708
Styrene	U		0.00317	0.0145	1	02/02/2019 14:49	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000581	0.00290	1	02/02/2019 14:49	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000453	0.00290	1	02/02/2019 14:49	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000784	0.00290	1	02/02/2019 14:49	WG1231708
Tetrachloroethene	9.41		0.0163	0.0581	20	02/03/2019 17:13	WG1231857
Toluene	U		0.00145	0.00581	1	02/02/2019 14:49	WG1231708
1,2,3-Trichlorobenzene	U		0.000726	0.00290	1	02/02/2019 14:49	WG1231708
1,2,4-Trichlorobenzene	U		0.00560	0.0145	1	02/02/2019 14:49	WG1231708
1,1,1-Trichloroethane	U		0.000319	0.00290	1	02/02/2019 14:49	WG1231708
1,1,2-Trichloroethane	U		0.00103	0.00290	1	02/02/2019 14:49	WG1231708
Trichloroethene	0.900		0.000465	0.00116	1	02/02/2019 14:49	WG1231708
Trichlorofluoromethane	U		0.000581	0.00290	1	02/02/2019 14:49	WG1231708
1,2,3-Trichloropropane	U		0.00592	0.0145	1	02/02/2019 14:49	WG1231708
1,2,4-Trimethylbenzene	0.00251	J	0.00135	0.00581	1	02/02/2019 14:49	WG1231708
1,2,3-Trimethylbenzene	U		0.00134	0.00581	1	02/02/2019 14:49	WG1231708
1,3,5-Trimethylbenzene	U		0.00125	0.00581	1	02/02/2019 14:49	WG1231708
Vinyl acetate	U		0.00409	0.0145	1	02/02/2019 14:49	WG1231708
Vinyl chloride	U		0.000793	0.00290	1	02/02/2019 14:49	WG1231708
Xylenes, Total	U		0.00555	0.00755	1	02/02/2019 14:49	WG1231708
(S) Toluene-d8	106			75.0-131		02/02/2019 14:49	WG1231708
(S) Toluene-d8	93.5			75.0-131		02/03/2019 17:13	WG1231857
(S) Dibromofluoromethane	86.1			65.0-129		02/02/2019 14:49	WG1231708
(S) Dibromofluoromethane	128			65.0-129		02/03/2019 17:13	WG1231857
(S) 4-Bromofluorobenzene	103			67.0-138		02/02/2019 14:49	WG1231708
(S) 4-Bromofluorobenzene	114			67.0-138		02/03/2019 17:13	WG1231857

Sample Narrative:

L1065738-04 WG1231857, WG1231708: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

L1065738-04 WG1231857, WG1231708: Not all compounds reportable at lower dilution.





Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.6		1	02/01/2019 13:27	WG1231191

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	1.72		0.612	1.12	40	02/03/2019 17:32	WG1231857
Acrylonitrile	U		0.00212	0.0140	1	02/02/2019 15:09	WG1231708
Benzene	0.000937	J	0.000447	0.00112	1	02/02/2019 15:09	WG1231708
Bromobenzene	U		0.00117	0.0140	1	02/02/2019 15:09	WG1231708
Bromodichloromethane	U		0.000880	0.00279	1	02/02/2019 15:09	WG1231708
Bromochloromethane	U		0.00126	0.00558	1	02/02/2019 15:09	WG1231708
Bromoform	U		0.00668	0.0279	1	02/02/2019 15:09	WG1231708
Bromomethane	U		0.00413	0.0140	1	02/02/2019 15:09	WG1231708
n-Butylbenzene	U		0.00429	0.0140	1	02/02/2019 15:09	WG1231708
sec-Butylbenzene	U		0.00282	0.0140	1	02/02/2019 15:09	WG1231708
tert-Butylbenzene	U		0.00173	0.00558	1	02/02/2019 15:09	WG1231708
Carbon disulfide	U	JO	0.00453	0.0140	1	02/02/2019 15:09	WG1231708
Carbon tetrachloride	U		0.00121	0.00558	1	02/02/2019 15:09	WG1231708
Chlorobenzene	U		0.000640	0.00279	1	02/02/2019 15:09	WG1231708
Chlorodibromomethane	U		0.000502	0.00279	1	02/02/2019 15:09	WG1231708
Chloroethane	U		0.00121	0.00558	1	02/02/2019 15:09	WG1231708
Chloroform	U		0.000463	0.00279	1	02/02/2019 15:09	WG1231708
Chloromethane	U		0.00155	0.0140	1	02/02/2019 15:09	WG1231708
2-Chlorotoluene	U		0.00103	0.00279	1	02/02/2019 15:09	WG1231708
4-Chlorotoluene	U		0.00126	0.00558	1	02/02/2019 15:09	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00569	0.0279	1	02/02/2019 15:09	WG1231708
1,2-Dibromoethane	U		0.000586	0.00279	1	02/02/2019 15:09	WG1231708
Dibromomethane	U		0.00112	0.00558	1	02/02/2019 15:09	WG1231708
1,2-Dichlorobenzene	U		0.00162	0.00558	1	02/02/2019 15:09	WG1231708
1,3-Dichlorobenzene	U		0.00190	0.00558	1	02/02/2019 15:09	WG1231708
1,4-Dichlorobenzene	U		0.00220	0.00558	1	02/02/2019 15:09	WG1231708
Dichlorodifluoromethane	U		0.000913	0.00279	1	02/02/2019 15:09	WG1231708
1,1-Dichloroethane	0.00197	J	0.000642	0.00279	1	02/02/2019 15:09	WG1231708
1,2-Dichloroethane	U		0.000530	0.00279	1	02/02/2019 15:09	WG1231708
1,1-Dichloroethene	0.00885		0.000558	0.00279	1	02/02/2019 15:09	WG1231708
cis-1,2-Dichloroethene	1.44		0.000770	0.00279	1	02/02/2019 15:09	WG1231708
trans-1,2-Dichloroethene	0.00593		0.00160	0.00558	1	02/02/2019 15:09	WG1231708
1,2-Dichloropropane	U		0.0567	0.223	40	02/03/2019 17:32	WG1231857
1,1-Dichloropropene	U		0.000781	0.00279	1	02/02/2019 15:09	WG1231708
1,3-Dichloropropane	U		0.00195	0.00558	1	02/02/2019 15:09	WG1231708
cis-1,3-Dichloropropene	U		0.000757	0.00279	1	02/02/2019 15:09	WG1231708
trans-1,3-Dichloropropene	U		0.00171	0.00558	1	02/02/2019 15:09	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00156	0.00558	1	02/02/2019 15:09	WG1231708
2,2-Dichloropropane	U		0.000885	0.00279	1	02/02/2019 15:09	WG1231708
Di-isopropyl ether	U		0.000391	0.00112	1	02/02/2019 15:09	WG1231708
Ethylbenzene	0.000641	J	0.000592	0.00279	1	02/02/2019 15:09	WG1231708
Hexachloro-1,3-butadiene	U		0.0142	0.0279	1	02/02/2019 15:09	WG1231708
2-Hexanone	U		0.0112	0.0279	1	02/02/2019 15:09	WG1231708
n-Hexane	U		0.00118	0.00558	1	02/02/2019 15:09	WG1231708
Iodomethane	U		0.00675	0.0140	1	02/02/2019 15:09	WG1231708
Isopropylbenzene	U		0.000963	0.00279	1	02/02/2019 15:09	WG1231708
p-Isopropyltoluene	U		0.00260	0.00558	1	02/02/2019 15:09	WG1231708
2-Butanone (MEK)	U		0.558	1.12	40	02/03/2019 17:32	WG1231857
Methylene Chloride	U		0.00741	0.0279	1	02/02/2019 15:09	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0279	1	02/02/2019 15:09	WG1231708

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/28/19 12:20

L1065738

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000329	0.00112	1	02/02/2019 15:09	WG1231708
Naphthalene	U		0.00348	0.0140	1	02/02/2019 15:09	WG1231708
n-Propylbenzene	U		0.00132	0.00558	1	02/02/2019 15:09	WG1231708
Styrene	U		0.00305	0.0140	1	02/02/2019 15:09	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000558	0.00279	1	02/02/2019 15:09	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000435	0.00279	1	02/02/2019 15:09	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00279	1	02/02/2019 15:09	WG1231708
Tetrachloroethene	21.7		0.0313	0.112	40	02/03/2019 17:32	WG1231857
Toluene	0.00278	L	0.00140	0.00558	1	02/02/2019 15:09	WG1231708
1,2,3-Trichlorobenzene	U		0.000698	0.00279	1	02/02/2019 15:09	WG1231708
1,2,4-Trichlorobenzene	U		0.00538	0.0140	1	02/02/2019 15:09	WG1231708
1,1,1-Trichloroethane	U		0.000307	0.00279	1	02/02/2019 15:09	WG1231708
1,1,2-Trichloroethane	U		0.000986	0.00279	1	02/02/2019 15:09	WG1231708
Trichloroethene	1.67		0.000447	0.00112	1	02/02/2019 15:09	WG1231708
Trichlorofluoromethane	U		0.000558	0.00279	1	02/02/2019 15:09	WG1231708
1,2,3-Trichloropropane	U		0.00569	0.0140	1	02/02/2019 15:09	WG1231708
1,2,4-Trimethylbenzene	0.00452	L	0.00129	0.00558	1	02/02/2019 15:09	WG1231708
1,2,3-Trimethylbenzene	0.00273	L	0.00128	0.00558	1	02/02/2019 15:09	WG1231708
1,3,5-Trimethylbenzene	0.00177	L	0.00121	0.00558	1	02/02/2019 15:09	WG1231708
Vinyl acetate	U		0.00393	0.0140	1	02/02/2019 15:09	WG1231708
Vinyl chloride	0.0156		0.000762	0.00279	1	02/02/2019 15:09	WG1231708
Xylenes, Total	U		0.00534	0.00726	1	02/02/2019 15:09	WG1231708
(S) Toluene-d8	98.0			75.0-131		02/02/2019 15:09	WG1231708
(S) Toluene-d8	92.9			75.0-131		02/03/2019 17:32	WG1231857
(S) Dibromofluoromethane	83.0			65.0-129		02/02/2019 15:09	WG1231708
(S) Dibromofluoromethane	132	J1		65.0-129		02/03/2019 17:32	WG1231857
(S) 4-Bromofluorobenzene	102			67.0-138		02/02/2019 15:09	WG1231708
(S) 4-Bromofluorobenzene	115			67.0-138		02/03/2019 17:32	WG1231857

Sample Narrative:

L1065738-05 WG1231857, WG1231708: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

L1065738-05 WG1231857, WG1231708: Not all compounds reportable at lower dilution.

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	02/01/2019 13:27	WG1231191

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	1.75		0.591	1.08	40	02/03/2019 17:51	WG1231857
Acrylonitrile	U		0.00205	0.0135	1	02/02/2019 15:29	WG1231708
Benzene	U		0.000432	0.00108	1	02/02/2019 15:29	WG1231708
Bromobenzene	U		0.00113	0.0135	1	02/02/2019 15:29	WG1231708
Bromodichloromethane	U		0.000850	0.00270	1	02/02/2019 15:29	WG1231708
Bromochloromethane	U		0.00122	0.00539	1	02/02/2019 15:29	WG1231708
Bromoform	U		0.00645	0.0270	1	02/02/2019 15:29	WG1231708
Bromomethane	U		0.00399	0.0135	1	02/02/2019 15:29	WG1231708
n-Butylbenzene	U		0.00414	0.0135	1	02/02/2019 15:29	WG1231708
sec-Butylbenzene	U		0.00273	0.0135	1	02/02/2019 15:29	WG1231708
tert-Butylbenzene	U		0.00167	0.00539	1	02/02/2019 15:29	WG1231708
Carbon disulfide	U	JO	0.00438	0.0135	1	02/02/2019 15:29	WG1231708
Carbon tetrachloride	U		0.00117	0.00539	1	02/02/2019 15:29	WG1231708
Chlorobenzene	U		0.000618	0.00270	1	02/02/2019 15:29	WG1231708
Chlorodibromomethane	U		0.000486	0.00270	1	02/02/2019 15:29	WG1231708
Chloroethane	U		0.00117	0.00539	1	02/02/2019 15:29	WG1231708
Chloroform	U		0.000448	0.00270	1	02/02/2019 15:29	WG1231708
Chloromethane	U		0.00150	0.0135	1	02/02/2019 15:29	WG1231708
2-Chlorotoluene	U		0.000993	0.00270	1	02/02/2019 15:29	WG1231708
4-Chlorotoluene	U		0.00122	0.00539	1	02/02/2019 15:29	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00550	0.0270	1	02/02/2019 15:29	WG1231708
1,2-Dibromoethane	U		0.000566	0.00270	1	02/02/2019 15:29	WG1231708
Dibromomethane	U		0.00108	0.00539	1	02/02/2019 15:29	WG1231708
1,2-Dichlorobenzene	U		0.00156	0.00539	1	02/02/2019 15:29	WG1231708
1,3-Dichlorobenzene	U		0.00183	0.00539	1	02/02/2019 15:29	WG1231708
1,4-Dichlorobenzene	U		0.00213	0.00539	1	02/02/2019 15:29	WG1231708
Dichlorodifluoromethane	U		0.000883	0.00270	1	02/02/2019 15:29	WG1231708
1,1-Dichloroethane	U		0.000620	0.00270	1	02/02/2019 15:29	WG1231708
1,2-Dichloroethane	U		0.000512	0.00270	1	02/02/2019 15:29	WG1231708
1,1-Dichloroethene	0.00311		0.000539	0.00270	1	02/02/2019 15:29	WG1231708
cis-1,2-Dichloroethene	0.358		0.000744	0.00270	1	02/02/2019 15:29	WG1231708
trans-1,2-Dichloroethene	U		0.00154	0.00539	1	02/02/2019 15:29	WG1231708
1,2-Dichloropropane	U		0.0548	0.216	40	02/03/2019 17:51	WG1231857
1,1-Dichloropropene	U		0.000755	0.00270	1	02/02/2019 15:29	WG1231708
1,3-Dichloropropane	U		0.00189	0.00539	1	02/02/2019 15:29	WG1231708
cis-1,3-Dichloropropene	U		0.000732	0.00270	1	02/02/2019 15:29	WG1231708
trans-1,3-Dichloropropene	U		0.00165	0.00539	1	02/02/2019 15:29	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00151	0.00539	1	02/02/2019 15:29	WG1231708
2,2-Dichloropropane	U		0.000856	0.00270	1	02/02/2019 15:29	WG1231708
Di-isopropyl ether	U		0.000378	0.00108	1	02/02/2019 15:29	WG1231708
Ethylbenzene	U		0.000572	0.00270	1	02/02/2019 15:29	WG1231708
Hexachloro-1,3-butadiene	U		0.0137	0.0270	1	02/02/2019 15:29	WG1231708
2-Hexanone	U		0.0108	0.0270	1	02/02/2019 15:29	WG1231708
n-Hexane	U		0.00114	0.00539	1	02/02/2019 15:29	WG1231708
Iodomethane	U		0.00653	0.0135	1	02/02/2019 15:29	WG1231708
Isopropylbenzene	U		0.000931	0.00270	1	02/02/2019 15:29	WG1231708
p-Isopropyltoluene	U		0.00251	0.00539	1	02/02/2019 15:29	WG1231708
2-Butanone (MEK)	U		0.539	1.08	40	02/03/2019 17:51	WG1231857
Methylene Chloride	U		0.00716	0.0270	1	02/02/2019 15:29	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0270	1	02/02/2019 15:29	WG1231708

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		0.000318	0.00108	1	02/02/2019 15:29	WG1231708
Naphthalene	U		0.00337	0.0135	1	02/02/2019 15:29	WG1231708
n-Propylbenzene	U		0.00127	0.00539	1	02/02/2019 15:29	WG1231708
Styrene	U		0.00295	0.0135	1	02/02/2019 15:29	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000539	0.00270	1	02/02/2019 15:29	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000421	0.00270	1	02/02/2019 15:29	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000728	0.00270	1	02/02/2019 15:29	WG1231708
Tetrachloroethene	11.6		0.0302	0.108	40	02/03/2019 17:51	WG1231857
Toluene	U		0.00135	0.00539	1	02/02/2019 15:29	WG1231708
1,2,3-Trichlorobenzene	U		0.000674	0.00270	1	02/02/2019 15:29	WG1231708
1,2,4-Trichlorobenzene	U		0.00520	0.0135	1	02/02/2019 15:29	WG1231708
1,1,1-Trichloroethane	U		0.000297	0.00270	1	02/02/2019 15:29	WG1231708
1,1,2-Trichloroethane	U		0.000953	0.00270	1	02/02/2019 15:29	WG1231708
Trichloroethene	0.613		0.000432	0.00108	1	02/02/2019 15:29	WG1231708
Trichlorofluoromethane	U		0.000539	0.00270	1	02/02/2019 15:29	WG1231708
1,2,3-Trichloropropane	U		0.00550	0.0135	1	02/02/2019 15:29	WG1231708
1,2,4-Trimethylbenzene	U		0.00125	0.00539	1	02/02/2019 15:29	WG1231708
1,2,3-Trimethylbenzene	U		0.00124	0.00539	1	02/02/2019 15:29	WG1231708
1,3,5-Trimethylbenzene	U		0.00117	0.00539	1	02/02/2019 15:29	WG1231708
Vinyl acetate	U		0.00380	0.0135	1	02/02/2019 15:29	WG1231708
Vinyl chloride	0.00126	J	0.000737	0.00270	1	02/02/2019 15:29	WG1231708
Xylenes, Total	U		0.00516	0.00701	1	02/02/2019 15:29	WG1231708
(S) Toluene-d8	101			75.0-131		02/02/2019 15:29	WG1231708
(S) Toluene-d8	93.5			75.0-131		02/03/2019 17:51	WG1231857
(S) Dibromofluoromethane	85.4			65.0-129		02/02/2019 15:29	WG1231708
(S) Dibromofluoromethane	133	J1		65.0-129		02/03/2019 17:51	WG1231857
(S) 4-Bromofluorobenzene	104			67.0-138		02/02/2019 15:29	WG1231708
(S) 4-Bromofluorobenzene	126			67.0-138		02/03/2019 17:51	WG1231857

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

Sample Narrative:

L1065738-06 WG1231857, WG1231708: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

L1065738-06 WG1231857, WG1231708: Not all compounds reportable at lower dilution.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.9		1	02/01/2019 13:27	WG1231191

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0329		0.0152	0.0278	1	02/03/2019 13:24	WG1231857
Acrylonitrile	U		0.00211	0.0139	1	02/02/2019 15:49	WG1231708
Benzene	0.000450	J	0.000445	0.00111	1	02/02/2019 15:49	WG1231708
Bromobenzene	U		0.00117	0.0139	1	02/02/2019 15:49	WG1231708
Bromodichloromethane	U		0.000877	0.00278	1	02/02/2019 15:49	WG1231708
Bromochloromethane	U		0.00126	0.00556	1	02/02/2019 15:49	WG1231708
Bromoform	U		0.00666	0.0278	1	02/02/2019 15:49	WG1231708
Bromomethane	U		0.00412	0.0139	1	02/02/2019 15:49	WG1231708
n-Butylbenzene	U		0.00427	0.0139	1	02/02/2019 15:49	WG1231708
sec-Butylbenzene	U		0.00282	0.0139	1	02/02/2019 15:49	WG1231708
tert-Butylbenzene	U		0.00173	0.00556	1	02/02/2019 15:49	WG1231708
Carbon disulfide	U	JO	0.00452	0.0139	1	02/02/2019 15:49	WG1231708
Carbon tetrachloride	U		0.00120	0.00556	1	02/02/2019 15:49	WG1231708
Chlorobenzene	U		0.000638	0.00278	1	02/02/2019 15:49	WG1231708
Chlorodibromomethane	U		0.000501	0.00278	1	02/02/2019 15:49	WG1231708
Chloroethane	U		0.00120	0.00556	1	02/02/2019 15:49	WG1231708
Chloroform	U		0.000462	0.00278	1	02/02/2019 15:49	WG1231708
Chloromethane	U		0.00155	0.0139	1	02/02/2019 15:49	WG1231708
2-Chlorotoluene	U		0.00102	0.00278	1	02/02/2019 15:49	WG1231708
4-Chlorotoluene	U		0.00126	0.00556	1	02/02/2019 15:49	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00568	0.0278	1	02/02/2019 15:49	WG1231708
1,2-Dibromoethane	U		0.000584	0.00278	1	02/02/2019 15:49	WG1231708
Dibromomethane	U		0.00111	0.00556	1	02/02/2019 15:49	WG1231708
1,2-Dichlorobenzene	U		0.00161	0.00556	1	02/02/2019 15:49	WG1231708
1,3-Dichlorobenzene	U		0.00189	0.00556	1	02/02/2019 15:49	WG1231708
1,4-Dichlorobenzene	U		0.00219	0.00556	1	02/02/2019 15:49	WG1231708
Dichlorodifluoromethane	U		0.000910	0.00278	1	02/02/2019 15:49	WG1231708
1,1-Dichloroethane	U		0.000640	0.00278	1	02/02/2019 15:49	WG1231708
1,2-Dichloroethane	U		0.000529	0.00278	1	02/02/2019 15:49	WG1231708
1,1-Dichloroethene	0.0199		0.000556	0.00278	1	02/02/2019 15:49	WG1231708
cis-1,2-Dichloroethene	2.23		0.000768	0.00278	1	02/02/2019 15:49	WG1231708
trans-1,2-Dichloroethene	0.00256	J	0.00159	0.00556	1	02/02/2019 15:49	WG1231708
1,2-Dichloropropane	U		0.00141	0.00556	1	02/03/2019 13:24	WG1231857
1,1-Dichloropropene	U		0.000779	0.00278	1	02/02/2019 15:49	WG1231708
1,3-Dichloropropane	U		0.00195	0.00556	1	02/02/2019 15:49	WG1231708
cis-1,3-Dichloropropene	U		0.000755	0.00278	1	02/02/2019 15:49	WG1231708
trans-1,3-Dichloropropene	U		0.00170	0.00556	1	02/02/2019 15:49	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00156	0.00556	1	02/02/2019 15:49	WG1231708
2,2-Dichloropropane	U		0.000883	0.00278	1	02/02/2019 15:49	WG1231708
Di-isopropyl ether	U		0.000390	0.00111	1	02/02/2019 15:49	WG1231708
Ethylbenzene	U		0.000590	0.00278	1	02/02/2019 15:49	WG1231708
Hexachloro-1,3-butadiene	U		0.0141	0.0278	1	02/02/2019 15:49	WG1231708
2-Hexanone	U		0.0111	0.0278	1	02/02/2019 15:49	WG1231708
n-Hexane	U		0.00118	0.00556	1	02/02/2019 15:49	WG1231708
Iodomethane	U		0.00673	0.0139	1	02/02/2019 15:49	WG1231708
Isopropylbenzene	U		0.000960	0.00278	1	02/02/2019 15:49	WG1231708
p-Isopropyltoluene	U		0.00259	0.00556	1	02/02/2019 15:49	WG1231708
2-Butanone (MEK)	0.0241	J	0.0139	0.0278	1	02/03/2019 13:24	WG1231857
Methylene Chloride	U		0.00739	0.0278	1	02/02/2019 15:49	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0278	1	02/02/2019 15:49	WG1231708

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		0.000328	0.00111	1	02/02/2019 15:49	WG1231708
Naphthalene	U		0.00347	0.0139	1	02/02/2019 15:49	WG1231708
n-Propylbenzene	U		0.00131	0.00556	1	02/02/2019 15:49	WG1231708
Styrene	U		0.00304	0.0139	1	02/02/2019 15:49	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000556	0.00278	1	02/02/2019 15:49	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000434	0.00278	1	02/02/2019 15:49	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000751	0.00278	1	02/02/2019 15:49	WG1231708
Tetrachloroethene	0.150		0.000779	0.00278	1	02/03/2019 13:24	WG1231857
Toluene	U		0.00139	0.00556	1	02/02/2019 15:49	WG1231708
1,2,3-Trichlorobenzene	U		0.000696	0.00278	1	02/02/2019 15:49	WG1231708
1,2,4-Trichlorobenzene	U		0.00536	0.0139	1	02/02/2019 15:49	WG1231708
1,1,1-Trichloroethane	U		0.000306	0.00278	1	02/02/2019 15:49	WG1231708
1,1,2-Trichloroethane	U		0.000983	0.00278	1	02/02/2019 15:49	WG1231708
Trichloroethene	0.0699		0.000445	0.00111	1	02/02/2019 15:49	WG1231708
Trichlorofluoromethane	U		0.000556	0.00278	1	02/02/2019 15:49	WG1231708
1,2,3-Trichloropropane	U		0.00568	0.0139	1	02/02/2019 15:49	WG1231708
1,2,4-Trimethylbenzene	U		0.00129	0.00556	1	02/02/2019 15:49	WG1231708
1,2,3-Trimethylbenzene	U		0.00128	0.00556	1	02/02/2019 15:49	WG1231708
1,3,5-Trimethylbenzene	U		0.00120	0.00556	1	02/02/2019 15:49	WG1231708
Vinyl acetate	U		0.00392	0.0139	1	02/02/2019 15:49	WG1231708
Vinyl chloride	0.00787		0.000760	0.00278	1	02/02/2019 15:49	WG1231708
Xylenes, Total	U		0.00532	0.00723	1	02/02/2019 15:49	WG1231708
(S) Toluene-d8	90.9			75.0-131		02/02/2019 15:49	WG1231708
(S) Toluene-d8	77.3			75.0-131		02/03/2019 13:24	WG1231857
(S) Dibromofluoromethane	84.6			65.0-129		02/02/2019 15:49	WG1231708
(S) Dibromofluoromethane	120			65.0-129		02/03/2019 13:24	WG1231857
(S) 4-Bromofluorobenzene	103			67.0-138		02/02/2019 15:49	WG1231708
(S) 4-Bromofluorobenzene	114			67.0-138		02/03/2019 13:24	WG1231857

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	88.4		1	02/01/2019 13:11	WG1231192

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0240	J	0.0155	0.0283	1	02/03/2019 13:43	WG1231857
Acrylonitrile	U		0.00215	0.0141	1	02/02/2019 16:10	WG1231708
Benzene	0.000535	J	0.000453	0.00113	1	02/02/2019 16:10	WG1231708
Bromobenzene	U		0.00119	0.0141	1	02/02/2019 16:10	WG1231708
Bromodichloromethane	U		0.000892	0.00283	1	02/02/2019 16:10	WG1231708
Bromochloromethane	U		0.00128	0.00566	1	02/02/2019 16:10	WG1231708
Bromoform	U		0.00677	0.0283	1	02/02/2019 16:10	WG1231708
Bromomethane	U		0.00419	0.0141	1	02/02/2019 16:10	WG1231708
n-Butylbenzene	U		0.00435	0.0141	1	02/02/2019 16:10	WG1231708
sec-Butylbenzene	U		0.00286	0.0141	1	02/02/2019 16:10	WG1231708
tert-Butylbenzene	U		0.00175	0.00566	1	02/02/2019 16:10	WG1231708
Carbon disulfide	U	JO	0.00460	0.0141	1	02/02/2019 16:10	WG1231708
Carbon tetrachloride	U		0.00122	0.00566	1	02/02/2019 16:10	WG1231708
Chlorobenzene	U		0.000649	0.00283	1	02/02/2019 16:10	WG1231708
Chlorodibromomethane	U		0.000509	0.00283	1	02/02/2019 16:10	WG1231708
Chloroethane	U		0.00122	0.00566	1	02/02/2019 16:10	WG1231708
Chloroform	U		0.000470	0.00283	1	02/02/2019 16:10	WG1231708
Chloromethane	U		0.00157	0.0141	1	02/02/2019 16:10	WG1231708
2-Chlorotoluene	U		0.00104	0.00283	1	02/02/2019 16:10	WG1231708
4-Chlorotoluene	U		0.00128	0.00566	1	02/02/2019 16:10	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00577	0.0283	1	02/02/2019 16:10	WG1231708
1,2-Dibromoethane	U		0.000594	0.00283	1	02/02/2019 16:10	WG1231708
Dibromomethane	U		0.00113	0.00566	1	02/02/2019 16:10	WG1231708
1,2-Dichlorobenzene	U		0.00164	0.00566	1	02/02/2019 16:10	WG1231708
1,3-Dichlorobenzene	U		0.00192	0.00566	1	02/02/2019 16:10	WG1231708
1,4-Dichlorobenzene	U		0.00223	0.00566	1	02/02/2019 16:10	WG1231708
Dichlorodifluoromethane	U		0.000926	0.00283	1	02/02/2019 16:10	WG1231708
1,1-Dichloroethane	U		0.000651	0.00283	1	02/02/2019 16:10	WG1231708
1,2-Dichloroethane	U		0.000538	0.00283	1	02/02/2019 16:10	WG1231708
1,1-Dichloroethene	U		0.000566	0.00283	1	02/02/2019 16:10	WG1231708
cis-1,2-Dichloroethene	0.0203		0.000781	0.00283	1	02/02/2019 16:10	WG1231708
trans-1,2-Dichloroethene	U		0.00162	0.00566	1	02/02/2019 16:10	WG1231708
1,2-Dichloropropane	U		0.00144	0.00566	1	02/03/2019 13:43	WG1231857
1,1-Dichloropropene	U		0.000792	0.00283	1	02/02/2019 16:10	WG1231708
1,3-Dichloropropane	U		0.00198	0.00566	1	02/02/2019 16:10	WG1231708
cis-1,3-Dichloropropene	U		0.000767	0.00283	1	02/02/2019 16:10	WG1231708
trans-1,3-Dichloropropene	U		0.00173	0.00566	1	02/02/2019 16:10	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00158	0.00566	1	02/02/2019 16:10	WG1231708
2,2-Dichloropropane	U		0.000898	0.00283	1	02/02/2019 16:10	WG1231708
Di-isopropyl ether	U		0.000396	0.00113	1	02/02/2019 16:10	WG1231708
Ethylbenzene	U		0.000600	0.00283	1	02/02/2019 16:10	WG1231708
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	02/02/2019 16:10	WG1231708
2-Hexanone	U		0.0113	0.0283	1	02/02/2019 16:10	WG1231708
n-Hexane	U		0.00120	0.00566	1	02/02/2019 16:10	WG1231708
Iodomethane	U		0.00685	0.0141	1	02/02/2019 16:10	WG1231708
Isopropylbenzene	U		0.000977	0.00283	1	02/02/2019 16:10	WG1231708
p-Isopropyltoluene	U		0.00264	0.00566	1	02/02/2019 16:10	WG1231708
2-Butanone (MEK)	0.0192	J	0.0141	0.0283	1	02/03/2019 13:43	WG1231857
Methylene Chloride	U		0.00752	0.0283	1	02/02/2019 16:10	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	02/02/2019 16:10	WG1231708

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/28/19 13:55

L1065738

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000334	0.00113	1	02/02/2019 16:10	WG1231708
Naphthalene	U		0.00353	0.0141	1	02/02/2019 16:10	WG1231708
n-Propylbenzene	U		0.00134	0.00566	1	02/02/2019 16:10	WG1231708
Styrene	U		0.00309	0.0141	1	02/02/2019 16:10	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000566	0.00283	1	02/02/2019 16:10	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000441	0.00283	1	02/02/2019 16:10	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000764	0.00283	1	02/02/2019 16:10	WG1231708
Tetrachloroethene	0.00281	L	0.000792	0.00283	1	02/03/2019 13:43	WG1231857
Toluene	0.00163	L	0.00141	0.00566	1	02/02/2019 16:10	WG1231708
1,2,3-Trichlorobenzene	U		0.000707	0.00283	1	02/02/2019 16:10	WG1231708
1,2,4-Trichlorobenzene	U		0.00546	0.0141	1	02/02/2019 16:10	WG1231708
1,1,1-Trichloroethane	U		0.000311	0.00283	1	02/02/2019 16:10	WG1231708
1,1,2-Trichloroethane	U		0.000999	0.00283	1	02/02/2019 16:10	WG1231708
Trichloroethene	0.00139		0.000453	0.00113	1	02/02/2019 16:10	WG1231708
Trichlorofluoromethane	U		0.000566	0.00283	1	02/02/2019 16:10	WG1231708
1,2,3-Trichloropropane	U		0.00577	0.0141	1	02/02/2019 16:10	WG1231708
1,2,4-Trimethylbenzene	U		0.00131	0.00566	1	02/02/2019 16:10	WG1231708
1,2,3-Trimethylbenzene	U		0.00130	0.00566	1	02/02/2019 16:10	WG1231708
1,3,5-Trimethylbenzene	U		0.00122	0.00566	1	02/02/2019 16:10	WG1231708
Vinyl acetate	U		0.00398	0.0141	1	02/02/2019 16:10	WG1231708
Vinyl chloride	U		0.000773	0.00283	1	02/02/2019 16:10	WG1231708
Xylenes, Total	U		0.00541	0.00736	1	02/02/2019 16:10	WG1231708
(S) Toluene-d8	108			75.0-131		02/02/2019 16:10	WG1231708
(S) Toluene-d8	96.1			75.0-131		02/03/2019 13:43	WG1231857
(S) Dibromofluoromethane	84.8			65.0-129		02/02/2019 16:10	WG1231708
(S) Dibromofluoromethane	113			65.0-129		02/03/2019 13:43	WG1231857
(S) 4-Bromofluorobenzene	104			67.0-138		02/02/2019 16:10	WG1231708
(S) 4-Bromofluorobenzene	122			67.0-138		02/03/2019 13:43	WG1231857

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	88.5		1	02/01/2019 13:11	WG1231192

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0277	J	0.0155	0.0283	1	02/03/2019 14:03	WG1231857
Acrylonitrile	U		0.00215	0.0141	1	02/02/2019 16:30	WG1231708
Benzene	U		0.000452	0.00113	1	02/02/2019 16:30	WG1231708
Bromobenzene	U		0.00119	0.0141	1	02/02/2019 16:30	WG1231708
Bromodichloromethane	U		0.000891	0.00283	1	02/02/2019 16:30	WG1231708
Bromochloromethane	U		0.00128	0.00565	1	02/02/2019 16:30	WG1231708
Bromoform	U		0.00676	0.0283	1	02/02/2019 16:30	WG1231708
Bromomethane	U		0.00418	0.0141	1	02/02/2019 16:30	WG1231708
n-Butylbenzene	U		0.00434	0.0141	1	02/02/2019 16:30	WG1231708
sec-Butylbenzene	U		0.00286	0.0141	1	02/02/2019 16:30	WG1231708
tert-Butylbenzene	U		0.00175	0.00565	1	02/02/2019 16:30	WG1231708
Carbon disulfide	U	JO	0.00459	0.0141	1	02/02/2019 16:30	WG1231708
Carbon tetrachloride	U		0.00122	0.00565	1	02/02/2019 16:30	WG1231708
Chlorobenzene	U		0.000648	0.00283	1	02/02/2019 16:30	WG1231708
Chlorodibromomethane	U		0.000509	0.00283	1	02/02/2019 16:30	WG1231708
Chloroethane	U		0.00122	0.00565	1	02/02/2019 16:30	WG1231708
Chloroform	U		0.000469	0.00283	1	02/02/2019 16:30	WG1231708
Chloromethane	U		0.00157	0.0141	1	02/02/2019 16:30	WG1231708
2-Chlorotoluene	U		0.00104	0.00283	1	02/02/2019 16:30	WG1231708
4-Chlorotoluene	U		0.00128	0.00565	1	02/02/2019 16:30	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00576	0.0283	1	02/02/2019 16:30	WG1231708
1,2-Dibromoethane	U		0.000593	0.00283	1	02/02/2019 16:30	WG1231708
Dibromomethane	U		0.00113	0.00565	1	02/02/2019 16:30	WG1231708
1,2-Dichlorobenzene	U		0.00164	0.00565	1	02/02/2019 16:30	WG1231708
1,3-Dichlorobenzene	U		0.00192	0.00565	1	02/02/2019 16:30	WG1231708
1,4-Dichlorobenzene	U		0.00223	0.00565	1	02/02/2019 16:30	WG1231708
Dichlorodifluoromethane	U		0.000924	0.00283	1	02/02/2019 16:30	WG1231708
1,1-Dichloroethane	U		0.000650	0.00283	1	02/02/2019 16:30	WG1231708
1,2-Dichloroethane	U		0.000537	0.00283	1	02/02/2019 16:30	WG1231708
1,1-Dichloroethene	U		0.000565	0.00283	1	02/02/2019 16:30	WG1231708
cis-1,2-Dichloroethene	0.0193		0.000780	0.00283	1	02/02/2019 16:30	WG1231708
trans-1,2-Dichloroethene	U		0.00162	0.00565	1	02/02/2019 16:30	WG1231708
1,2-Dichloropropane	U		0.00144	0.00565	1	02/03/2019 14:03	WG1231857
1,1-Dichloropropene	U		0.000791	0.00283	1	02/02/2019 16:30	WG1231708
1,3-Dichloropropane	U		0.00198	0.00565	1	02/02/2019 16:30	WG1231708
cis-1,3-Dichloropropene	U		0.000766	0.00283	1	02/02/2019 16:30	WG1231708
trans-1,3-Dichloropropene	U		0.00173	0.00565	1	02/02/2019 16:30	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00158	0.00565	1	02/02/2019 16:30	WG1231708
2,2-Dichloropropane	U		0.000896	0.00283	1	02/02/2019 16:30	WG1231708
Di-isopropyl ether	U		0.000396	0.00113	1	02/02/2019 16:30	WG1231708
Ethylbenzene	U		0.000599	0.00283	1	02/02/2019 16:30	WG1231708
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	02/02/2019 16:30	WG1231708
2-Hexanone	U		0.0113	0.0283	1	02/02/2019 16:30	WG1231708
n-Hexane	U		0.00120	0.00565	1	02/02/2019 16:30	WG1231708
Iodomethane	U		0.00684	0.0141	1	02/02/2019 16:30	WG1231708
Isopropylbenzene	U		0.000975	0.00283	1	02/02/2019 16:30	WG1231708
p-Isopropyltoluene	U		0.00263	0.00565	1	02/02/2019 16:30	WG1231708
2-Butanone (MEK)	U		0.0141	0.0283	1	02/03/2019 14:03	WG1231857
Methylene Chloride	U		0.00750	0.0283	1	02/02/2019 16:30	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	02/02/2019 16:30	WG1231708

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		0.000333	0.00113	1	02/02/2019 16:30	WG1231708
Naphthalene	U		0.00353	0.0141	1	02/02/2019 16:30	WG1231708
n-Propylbenzene	U		0.00133	0.00565	1	02/02/2019 16:30	WG1231708
Styrene	U		0.00309	0.0141	1	02/02/2019 16:30	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000565	0.00283	1	02/02/2019 16:30	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000441	0.00283	1	02/02/2019 16:30	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000763	0.00283	1	02/02/2019 16:30	WG1231708
Tetrachloroethene	0.000964	U	0.000791	0.00283	1	02/03/2019 14:03	WG1231857
Toluene	U		0.00141	0.00565	1	02/02/2019 16:30	WG1231708
1,2,3-Trichlorobenzene	U		0.000706	0.00283	1	02/02/2019 16:30	WG1231708
1,2,4-Trichlorobenzene	U		0.00545	0.0141	1	02/02/2019 16:30	WG1231708
1,1,1-Trichloroethane	U		0.000311	0.00283	1	02/02/2019 16:30	WG1231708
1,1,2-Trichloroethane	U		0.000998	0.00283	1	02/02/2019 16:30	WG1231708
Trichloroethene	0.00615		0.000452	0.00113	1	02/02/2019 16:30	WG1231708
Trichlorofluoromethane	U		0.000565	0.00283	1	02/02/2019 16:30	WG1231708
1,2,3-Trichloropropane	U		0.00576	0.0141	1	02/02/2019 16:30	WG1231708
1,2,4-Trimethylbenzene	U		0.00131	0.00565	1	02/02/2019 16:30	WG1231708
1,2,3-Trimethylbenzene	U		0.00130	0.00565	1	02/02/2019 16:30	WG1231708
1,3,5-Trimethylbenzene	U		0.00122	0.00565	1	02/02/2019 16:30	WG1231708
Vinyl acetate	U		0.00398	0.0141	1	02/02/2019 16:30	WG1231708
Vinyl chloride	U		0.000772	0.00283	1	02/02/2019 16:30	WG1231708
Xylenes, Total	U		0.00540	0.00735	1	02/02/2019 16:30	WG1231708
(S) Toluene-d8	112			75.0-131		02/02/2019 16:30	WG1231708
(S) Toluene-d8	90.4			75.0-131		02/03/2019 14:03	WG1231857
(S) Dibromofluoromethane	83.3			65.0-129		02/02/2019 16:30	WG1231708
(S) Dibromofluoromethane	123			65.0-129		02/03/2019 14:03	WG1231857
(S) 4-Bromofluorobenzene	101			67.0-138		02/02/2019 16:30	WG1231708
(S) 4-Bromofluorobenzene	121			67.0-138		02/03/2019 14:03	WG1231857

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	87.2		1	02/01/2019 13:11	WG1231192

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0236	<u>J</u>	0.0157	0.0287	1	02/03/2019 14:22	WG1231857
Acrylonitrile	U		0.00218	0.0143	1	02/02/2019 16:50	WG1231708
Benzene	U		0.000459	0.00115	1	02/02/2019 16:50	WG1231708
Bromobenzene	U		0.00120	0.0143	1	02/02/2019 16:50	WG1231708
Bromodichloromethane	U		0.000904	0.00287	1	02/02/2019 16:50	WG1231708
Bromochloromethane	U		0.00130	0.00574	1	02/02/2019 16:50	WG1231708
Bromoform	U		0.00686	0.0287	1	02/02/2019 16:50	WG1231708
Bromomethane	U		0.00425	0.0143	1	02/02/2019 16:50	WG1231708
n-Butylbenzene	U		0.00441	0.0143	1	02/02/2019 16:50	WG1231708
sec-Butylbenzene	U		0.00290	0.0143	1	02/02/2019 16:50	WG1231708
tert-Butylbenzene	U		0.00178	0.00574	1	02/02/2019 16:50	WG1231708
Carbon disulfide	U	<u>JO</u>	0.00466	0.0143	1	02/02/2019 16:50	WG1231708
Carbon tetrachloride	U		0.00124	0.00574	1	02/02/2019 16:50	WG1231708
Chlorobenzene	U		0.000657	0.00287	1	02/02/2019 16:50	WG1231708
Chlorodibromomethane	U		0.000516	0.00287	1	02/02/2019 16:50	WG1231708
Chloroethane	U		0.00124	0.00574	1	02/02/2019 16:50	WG1231708
Chloroform	U		0.000476	0.00287	1	02/02/2019 16:50	WG1231708
Chloromethane	U		0.00159	0.0143	1	02/02/2019 16:50	WG1231708
2-Chlorotoluene	U		0.00106	0.00287	1	02/02/2019 16:50	WG1231708
4-Chlorotoluene	U		0.00130	0.00574	1	02/02/2019 16:50	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00585	0.0287	1	02/02/2019 16:50	WG1231708
1,2-Dibromoethane	U		0.000602	0.00287	1	02/02/2019 16:50	WG1231708
Dibromomethane	U		0.00115	0.00574	1	02/02/2019 16:50	WG1231708
1,2-Dichlorobenzene	U		0.00166	0.00574	1	02/02/2019 16:50	WG1231708
1,3-Dichlorobenzene	U		0.00195	0.00574	1	02/02/2019 16:50	WG1231708
1,4-Dichlorobenzene	U		0.00226	0.00574	1	02/02/2019 16:50	WG1231708
Dichlorodifluoromethane	U		0.000939	0.00287	1	02/02/2019 16:50	WG1231708
1,1-Dichloroethane	U		0.000660	0.00287	1	02/02/2019 16:50	WG1231708
1,2-Dichloroethane	U		0.000545	0.00287	1	02/02/2019 16:50	WG1231708
1,1-Dichloroethene	U		0.000574	0.00287	1	02/02/2019 16:50	WG1231708
cis-1,2-Dichloroethene	0.0178		0.000792	0.00287	1	02/02/2019 16:50	WG1231708
trans-1,2-Dichloroethene	U		0.00164	0.00574	1	02/02/2019 16:50	WG1231708
1,2-Dichloropropane	U		0.00146	0.00574	1	02/03/2019 14:22	WG1231857
1,1-Dichloropropene	U		0.000803	0.00287	1	02/02/2019 16:50	WG1231708
1,3-Dichloropropane	U		0.00201	0.00574	1	02/02/2019 16:50	WG1231708
cis-1,3-Dichloropropene	U		0.000778	0.00287	1	02/02/2019 16:50	WG1231708
trans-1,3-Dichloropropene	U		0.00176	0.00574	1	02/02/2019 16:50	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00161	0.00574	1	02/02/2019 16:50	WG1231708
2,2-Dichloropropane	U		0.000910	0.00287	1	02/02/2019 16:50	WG1231708
Di-isopropyl ether	U		0.000402	0.00115	1	02/02/2019 16:50	WG1231708
Ethylbenzene	U		0.000608	0.00287	1	02/02/2019 16:50	WG1231708
Hexachloro-1,3-butadiene	U		0.0146	0.0287	1	02/02/2019 16:50	WG1231708
2-Hexanone	U		0.0115	0.0287	1	02/02/2019 16:50	WG1231708
n-Hexane	U		0.00122	0.00574	1	02/02/2019 16:50	WG1231708
Iodomethane	U		0.00694	0.0143	1	02/02/2019 16:50	WG1231708
Isopropylbenzene	U		0.000990	0.00287	1	02/02/2019 16:50	WG1231708
p-Isopropyltoluene	U		0.00267	0.00574	1	02/02/2019 16:50	WG1231708
2-Butanone (MEK)	U		0.0143	0.0287	1	02/03/2019 14:22	WG1231857
Methylene Chloride	0.00870	<u>B J</u>	0.00762	0.0287	1	02/02/2019 16:50	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0287	1	02/02/2019 16:50	WG1231708





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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000338	0.00115	1	02/02/2019 16:50	WG1231708
Naphthalene	U		0.00358	0.0143	1	02/02/2019 16:50	WG1231708
n-Propylbenzene	U		0.00135	0.00574	1	02/02/2019 16:50	WG1231708
Styrene	U		0.00313	0.0143	1	02/02/2019 16:50	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000574	0.00287	1	02/02/2019 16:50	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000447	0.00287	1	02/02/2019 16:50	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000774	0.00287	1	02/02/2019 16:50	WG1231708
Tetrachloroethene	0.276	<u>J4</u>	0.000803	0.00287	1	02/02/2019 16:50	WG1231708
Toluene	U		0.00143	0.00574	1	02/02/2019 16:50	WG1231708
1,2,3-Trichlorobenzene	U		0.000717	0.00287	1	02/02/2019 16:50	WG1231708
1,2,4-Trichlorobenzene	U		0.00553	0.0143	1	02/02/2019 16:50	WG1231708
1,1,1-Trichloroethane	U		0.000316	0.00287	1	02/02/2019 16:50	WG1231708
1,1,2-Trichloroethane	U		0.00101	0.00287	1	02/02/2019 16:50	WG1231708
Trichloroethene	0.0152		0.000459	0.00115	1	02/02/2019 16:50	WG1231708
Trichlorofluoromethane	U		0.000574	0.00287	1	02/02/2019 16:50	WG1231708
1,2,3-Trichloropropane	U		0.00585	0.0143	1	02/02/2019 16:50	WG1231708
1,2,4-Trimethylbenzene	U		0.00133	0.00574	1	02/02/2019 16:50	WG1231708
1,2,3-Trimethylbenzene	U		0.00132	0.00574	1	02/02/2019 16:50	WG1231708
1,3,5-Trimethylbenzene	U		0.00124	0.00574	1	02/02/2019 16:50	WG1231708
Vinyl acetate	U		0.00404	0.0143	1	02/02/2019 16:50	WG1231708
Vinyl chloride	U		0.000784	0.00287	1	02/02/2019 16:50	WG1231708
Xylenes, Total	U		0.00548	0.00746	1	02/02/2019 16:50	WG1231708
(S) Toluene-d8	112			75.0-131		02/02/2019 16:50	WG1231708
(S) Toluene-d8	94.2			75.0-131		02/03/2019 14:22	WG1231857
(S) Dibromofluoromethane	83.2			65.0-129		02/02/2019 16:50	WG1231708
(S) Dibromofluoromethane	118			65.0-129		02/03/2019 14:22	WG1231857
(S) 4-Bromofluorobenzene	102			67.0-138		02/02/2019 16:50	WG1231708
(S) 4-Bromofluorobenzene	121			67.0-138		02/03/2019 14:22	WG1231857

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Collected date/time: 01/28/19 14:30

L1065738

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.7		1	02/01/2019 13:11	WG1231192

Volatile Organic Compounds (GC/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	0.0160	0.0292	1	02/03/2019 14:41	WG1231857
Acrylonitrile	U		0.00222	0.0146	1	02/02/2019 17:10	WG1231708
Benzene	U		0.000467	0.00117	1	02/02/2019 17:10	WG1231708
Bromobenzene	U		0.00123	0.0146	1	02/02/2019 17:10	WG1231708
Bromodichloromethane	U		0.000920	0.00292	1	02/02/2019 17:10	WG1231708
Bromochloromethane	U		0.00132	0.00584	1	02/02/2019 17:10	WG1231708
Bromoform	U		0.00698	0.0292	1	02/02/2019 17:10	WG1231708
Bromomethane	U		0.00432	0.0146	1	02/02/2019 17:10	WG1231708
n-Butylbenzene	U		0.00448	0.0146	1	02/02/2019 17:10	WG1231708
sec-Butylbenzene	U		0.00295	0.0146	1	02/02/2019 17:10	WG1231708
tert-Butylbenzene	U		0.00181	0.00584	1	02/02/2019 17:10	WG1231708
Carbon disulfide	U	JO	0.00474	0.0146	1	02/02/2019 17:10	WG1231708
Carbon tetrachloride	U		0.00126	0.00584	1	02/02/2019 17:10	WG1231708
Chlorobenzene	U		0.000669	0.00292	1	02/02/2019 17:10	WG1231708
Chlorodibromomethane	U		0.000525	0.00292	1	02/02/2019 17:10	WG1231708
Chloroethane	U		0.00126	0.00584	1	02/02/2019 17:10	WG1231708
Chloroform	U		0.000485	0.00292	1	02/02/2019 17:10	WG1231708
Chloromethane	U		0.00162	0.0146	1	02/02/2019 17:10	WG1231708
2-Chlorotoluene	U		0.00107	0.00292	1	02/02/2019 17:10	WG1231708
4-Chlorotoluene	U		0.00132	0.00584	1	02/02/2019 17:10	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00595	0.0292	1	02/02/2019 17:10	WG1231708
1,2-Dibromoethane	U		0.000613	0.00292	1	02/02/2019 17:10	WG1231708
Dibromomethane	U		0.00117	0.00584	1	02/02/2019 17:10	WG1231708
1,2-Dichlorobenzene	U		0.00169	0.00584	1	02/02/2019 17:10	WG1231708
1,3-Dichlorobenzene	U		0.00198	0.00584	1	02/02/2019 17:10	WG1231708
1,4-Dichlorobenzene	U		0.00230	0.00584	1	02/02/2019 17:10	WG1231708
Dichlorodifluoromethane	U		0.000955	0.00292	1	02/02/2019 17:10	WG1231708
1,1-Dichloroethane	U		0.000671	0.00292	1	02/02/2019 17:10	WG1231708
1,2-Dichloroethane	U		0.000555	0.00292	1	02/02/2019 17:10	WG1231708
1,1-Dichloroethene	U		0.000584	0.00292	1	02/02/2019 17:10	WG1231708
cis-1,2-Dichloroethene	0.00108	J	0.000806	0.00292	1	02/02/2019 17:10	WG1231708
trans-1,2-Dichloroethene	U		0.00167	0.00584	1	02/02/2019 17:10	WG1231708
1,2-Dichloropropane	U		0.00148	0.00584	1	02/03/2019 14:41	WG1231857
1,1-Dichloropropene	U		0.000817	0.00292	1	02/02/2019 17:10	WG1231708
1,3-Dichloropropane	U		0.00204	0.00584	1	02/02/2019 17:10	WG1231708
cis-1,3-Dichloropropene	U		0.000792	0.00292	1	02/02/2019 17:10	WG1231708
trans-1,3-Dichloropropene	U		0.00179	0.00584	1	02/02/2019 17:10	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00163	0.00584	1	02/02/2019 17:10	WG1231708
2,2-Dichloropropane	U		0.000926	0.00292	1	02/02/2019 17:10	WG1231708
Di-isopropyl ether	U		0.000409	0.00117	1	02/02/2019 17:10	WG1231708
Ethylbenzene	U		0.000619	0.00292	1	02/02/2019 17:10	WG1231708
Hexachloro-1,3-butadiene	U		0.0148	0.0292	1	02/02/2019 17:10	WG1231708
2-Hexanone	U		0.0117	0.0292	1	02/02/2019 17:10	WG1231708
n-Hexane	U		0.00124	0.00584	1	02/02/2019 17:10	WG1231708
Iodomethane	U		0.00706	0.0146	1	02/02/2019 17:10	WG1231708
Isopropylbenzene	U		0.00101	0.00292	1	02/02/2019 17:10	WG1231708
p-Isopropyltoluene	U		0.00272	0.00584	1	02/02/2019 17:10	WG1231708
2-Butanone (MEK)	0.0200	J	0.0146	0.0292	1	02/03/2019 14:41	WG1231857
Methylene Chloride	U		0.00775	0.0292	1	02/02/2019 17:10	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0292	1	02/02/2019 17:10	WG1231708

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/28/19 14:30

L1065738

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000344	0.00117	1	02/02/2019 17:10	WG1231708
Naphthalene	U		0.00364	0.0146	1	02/02/2019 17:10	WG1231708
n-Propylbenzene	U		0.00138	0.00584	1	02/02/2019 17:10	WG1231708
Styrene	U		0.00319	0.0146	1	02/02/2019 17:10	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000584	0.00292	1	02/02/2019 17:10	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000455	0.00292	1	02/02/2019 17:10	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000788	0.00292	1	02/02/2019 17:10	WG1231708
Tetrachloroethene	0.00679	<u>J4</u>	0.000817	0.00292	1	02/02/2019 17:10	WG1231708
Toluene	U		0.00146	0.00584	1	02/02/2019 17:10	WG1231708
1,2,3-Trichlorobenzene	U		0.000730	0.00292	1	02/02/2019 17:10	WG1231708
1,2,4-Trichlorobenzene	U		0.00563	0.0146	1	02/02/2019 17:10	WG1231708
1,1,1-Trichloroethane	U		0.000321	0.00292	1	02/02/2019 17:10	WG1231708
1,1,2-Trichloroethane	U		0.00103	0.00292	1	02/02/2019 17:10	WG1231708
Trichloroethene	U		0.000467	0.00117	1	02/02/2019 17:10	WG1231708
Trichlorofluoromethane	U		0.000584	0.00292	1	02/02/2019 17:10	WG1231708
1,2,3-Trichloropropane	U		0.00595	0.0146	1	02/02/2019 17:10	WG1231708
1,2,4-Trimethylbenzene	U		0.00135	0.00584	1	02/02/2019 17:10	WG1231708
1,2,3-Trimethylbenzene	U		0.00134	0.00584	1	02/02/2019 17:10	WG1231708
1,3,5-Trimethylbenzene	U		0.00126	0.00584	1	02/02/2019 17:10	WG1231708
Vinyl acetate	U		0.00411	0.0146	1	02/02/2019 17:10	WG1231708
Vinyl chloride	U		0.000797	0.00292	1	02/02/2019 17:10	WG1231708
Xylenes, Total	U		0.00558	0.00759	1	02/02/2019 17:10	WG1231708
(S) Toluene-d8	112			75.0-131		02/02/2019 17:10	WG1231708
(S) Toluene-d8	98.8			75.0-131		02/03/2019 14:41	WG1231857
(S) Dibromofluoromethane	81.9			65.0-129		02/02/2019 17:10	WG1231708
(S) Dibromofluoromethane	113			65.0-129		02/03/2019 14:41	WG1231857
(S) 4-Bromofluorobenzene	103			67.0-138		02/02/2019 17:10	WG1231708
(S) 4-Bromofluorobenzene	106			67.0-138		02/03/2019 14:41	WG1231857

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	89.0		1	02/01/2019 13:11	WG1231192

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0259	J	0.0154	0.0281	1	02/03/2019 15:00	WG1231857
Acrylonitrile	U		0.00214	0.0141	1	02/02/2019 17:31	WG1231708
Benzene	U		0.000450	0.00112	1	02/02/2019 17:31	WG1231708
Bromobenzene	U		0.00118	0.0141	1	02/02/2019 17:31	WG1231708
Bromodichloromethane	U		0.000886	0.00281	1	02/02/2019 17:31	WG1231708
Bromochloromethane	U		0.00127	0.00562	1	02/02/2019 17:31	WG1231708
Bromoform	U		0.00672	0.0281	1	02/02/2019 17:31	WG1231708
Bromomethane	U		0.00416	0.0141	1	02/02/2019 17:31	WG1231708
n-Butylbenzene	U		0.00432	0.0141	1	02/02/2019 17:31	WG1231708
sec-Butylbenzene	U		0.00284	0.0141	1	02/02/2019 17:31	WG1231708
tert-Butylbenzene	U		0.00174	0.00562	1	02/02/2019 17:31	WG1231708
Carbon disulfide	U	JO	0.00456	0.0141	1	02/02/2019 17:31	WG1231708
Carbon tetrachloride	U		0.00121	0.00562	1	02/02/2019 17:31	WG1231708
Chlorobenzene	U		0.000644	0.00281	1	02/02/2019 17:31	WG1231708
Chlorodibromomethane	U		0.000506	0.00281	1	02/02/2019 17:31	WG1231708
Chloroethane	U		0.00121	0.00562	1	02/02/2019 17:31	WG1231708
Chloroform	U		0.000466	0.00281	1	02/02/2019 17:31	WG1231708
Chloromethane	U		0.00156	0.0141	1	02/02/2019 17:31	WG1231708
2-Chlorotoluene	U		0.00103	0.00281	1	02/02/2019 17:31	WG1231708
4-Chlorotoluene	U		0.00127	0.00562	1	02/02/2019 17:31	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00573	0.0281	1	02/02/2019 17:31	WG1231708
1,2-Dibromoethane	U		0.000590	0.00281	1	02/02/2019 17:31	WG1231708
Dibromomethane	U		0.00112	0.00562	1	02/02/2019 17:31	WG1231708
1,2-Dichlorobenzene	U		0.00163	0.00562	1	02/02/2019 17:31	WG1231708
1,3-Dichlorobenzene	U		0.00191	0.00562	1	02/02/2019 17:31	WG1231708
1,4-Dichlorobenzene	U		0.00221	0.00562	1	02/02/2019 17:31	WG1231708
Dichlorodifluoromethane	U		0.000920	0.00281	1	02/02/2019 17:31	WG1231708
1,1-Dichloroethane	U		0.000646	0.00281	1	02/02/2019 17:31	WG1231708
1,2-Dichloroethane	U		0.000534	0.00281	1	02/02/2019 17:31	WG1231708
1,1-Dichloroethene	U		0.000562	0.00281	1	02/02/2019 17:31	WG1231708
cis-1,2-Dichloroethene	0.00206	J	0.000776	0.00281	1	02/02/2019 17:31	WG1231708
trans-1,2-Dichloroethene	U		0.00161	0.00562	1	02/02/2019 17:31	WG1231708
1,2-Dichloropropane	U		0.00143	0.00562	1	02/03/2019 15:00	WG1231857
1,1-Dichloropropene	U		0.000787	0.00281	1	02/02/2019 17:31	WG1231708
1,3-Dichloropropane	U		0.00197	0.00562	1	02/02/2019 17:31	WG1231708
cis-1,3-Dichloropropene	U		0.000762	0.00281	1	02/02/2019 17:31	WG1231708
trans-1,3-Dichloropropene	U		0.00172	0.00562	1	02/02/2019 17:31	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00157	0.00562	1	02/02/2019 17:31	WG1231708
2,2-Dichloropropane	U		0.000891	0.00281	1	02/02/2019 17:31	WG1231708
Di-isopropyl ether	U		0.000393	0.00112	1	02/02/2019 17:31	WG1231708
Ethylbenzene	U		0.000596	0.00281	1	02/02/2019 17:31	WG1231708
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	02/02/2019 17:31	WG1231708
2-Hexanone	U		0.0112	0.0281	1	02/02/2019 17:31	WG1231708
n-Hexane	U		0.00119	0.00562	1	02/02/2019 17:31	WG1231708
Iodomethane	U		0.00680	0.0141	1	02/02/2019 17:31	WG1231708
Isopropylbenzene	U		0.000970	0.00281	1	02/02/2019 17:31	WG1231708
p-Isopropyltoluene	U		0.00262	0.00562	1	02/02/2019 17:31	WG1231708
2-Butanone (MEK)	0.0251	J	0.0141	0.0281	1	02/03/2019 15:00	WG1231857
Methylene Chloride	U		0.00746	0.0281	1	02/02/2019 17:31	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	02/02/2019 17:31	WG1231708

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		0.000332	0.00112	1	02/02/2019 17:31	WG1231708
Naphthalene	U		0.00351	0.0141	1	02/02/2019 17:31	WG1231708
n-Propylbenzene	U		0.00133	0.00562	1	02/02/2019 17:31	WG1231708
Styrene	U		0.00307	0.0141	1	02/02/2019 17:31	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000562	0.00281	1	02/02/2019 17:31	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000438	0.00281	1	02/02/2019 17:31	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000759	0.00281	1	02/02/2019 17:31	WG1231708
Tetrachloroethene	0.0269	<u>J4</u>	0.000787	0.00281	1	02/02/2019 17:31	WG1231708
Toluene	U		0.00141	0.00562	1	02/02/2019 17:31	WG1231708
1,2,3-Trichlorobenzene	U		0.000703	0.00281	1	02/02/2019 17:31	WG1231708
1,2,4-Trichlorobenzene	U		0.00542	0.0141	1	02/02/2019 17:31	WG1231708
1,1,1-Trichloroethane	U		0.000309	0.00281	1	02/02/2019 17:31	WG1231708
1,1,2-Trichloroethane	U		0.000993	0.00281	1	02/02/2019 17:31	WG1231708
Trichloroethene	0.00349		0.000450	0.00112	1	02/02/2019 17:31	WG1231708
Trichlorofluoromethane	U		0.000562	0.00281	1	02/02/2019 17:31	WG1231708
1,2,3-Trichloropropane	U		0.00573	0.0141	1	02/02/2019 17:31	WG1231708
1,2,4-Trimethylbenzene	U		0.00130	0.00562	1	02/02/2019 17:31	WG1231708
1,2,3-Trimethylbenzene	U		0.00129	0.00562	1	02/02/2019 17:31	WG1231708
1,3,5-Trimethylbenzene	U		0.00121	0.00562	1	02/02/2019 17:31	WG1231708
Vinyl acetate	U		0.00396	0.0141	1	02/02/2019 17:31	WG1231708
Vinyl chloride	U		0.000768	0.00281	1	02/02/2019 17:31	WG1231708
Xylenes, Total	U		0.00537	0.00731	1	02/02/2019 17:31	WG1231708
(S) Toluene-d8	116			75.0-131		02/02/2019 17:31	WG1231708
(S) Toluene-d8	95.6			75.0-131		02/03/2019 15:00	WG1231857
(S) Dibromofluoromethane	84.2			65.0-129		02/02/2019 17:31	WG1231708
(S) Dibromofluoromethane	116			65.0-129		02/03/2019 15:00	WG1231857
(S) 4-Bromofluorobenzene	104			67.0-138		02/02/2019 17:31	WG1231708
(S) 4-Bromofluorobenzene	114			67.0-138		02/03/2019 15:00	WG1231857

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



Collected date/time: 01/28/19 14:47

L1065738

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.4		1	02/01/2019 13:11	WG1231192

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0196	J	0.0150	0.0274	1	02/03/2019 15:19	WG1231857
Acrylonitrile	U		0.00208	0.0137	1	02/02/2019 17:51	WG1231708
Benzene	U		0.000438	0.00109	1	02/02/2019 17:51	WG1231708
Bromobenzene	U		0.00115	0.0137	1	02/02/2019 17:51	WG1231708
Bromodichloromethane	U		0.000862	0.00274	1	02/02/2019 17:51	WG1231708
Bromochloromethane	U		0.00124	0.00547	1	02/02/2019 17:51	WG1231708
Bromoform	U		0.00655	0.0274	1	02/02/2019 17:51	WG1231708
Bromomethane	U		0.00405	0.0137	1	02/02/2019 17:51	WG1231708
n-Butylbenzene	U		0.00420	0.0137	1	02/02/2019 17:51	WG1231708
sec-Butylbenzene	U		0.00277	0.0137	1	02/02/2019 17:51	WG1231708
tert-Butylbenzene	U		0.00170	0.00547	1	02/02/2019 17:51	WG1231708
Carbon disulfide	U	JO	0.00444	0.0137	1	02/02/2019 17:51	WG1231708
Carbon tetrachloride	U		0.00118	0.00547	1	02/02/2019 17:51	WG1231708
Chlorobenzene	U		0.000627	0.00274	1	02/02/2019 17:51	WG1231708
Chlorodibromomethane	U		0.000493	0.00274	1	02/02/2019 17:51	WG1231708
Chloroethane	U		0.00118	0.00547	1	02/02/2019 17:51	WG1231708
Chloroform	U		0.000454	0.00274	1	02/02/2019 17:51	WG1231708
Chloromethane	U		0.00152	0.0137	1	02/02/2019 17:51	WG1231708
2-Chlorotoluene	U		0.00101	0.00274	1	02/02/2019 17:51	WG1231708
4-Chlorotoluene	U		0.00124	0.00547	1	02/02/2019 17:51	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00558	0.0274	1	02/02/2019 17:51	WG1231708
1,2-Dibromoethane	U		0.000575	0.00274	1	02/02/2019 17:51	WG1231708
Dibromomethane	U		0.00109	0.00547	1	02/02/2019 17:51	WG1231708
1,2-Dichlorobenzene	U		0.00159	0.00547	1	02/02/2019 17:51	WG1231708
1,3-Dichlorobenzene	U		0.00186	0.00547	1	02/02/2019 17:51	WG1231708
1,4-Dichlorobenzene	U		0.00216	0.00547	1	02/02/2019 17:51	WG1231708
Dichlorodifluoromethane	U		0.000895	0.00274	1	02/02/2019 17:51	WG1231708
1,1-Dichloroethane	U		0.000629	0.00274	1	02/02/2019 17:51	WG1231708
1,2-Dichloroethane	U		0.000520	0.00274	1	02/02/2019 17:51	WG1231708
1,1-Dichloroethene	U		0.000547	0.00274	1	02/02/2019 17:51	WG1231708
cis-1,2-Dichloroethene	U		0.000755	0.00274	1	02/02/2019 17:51	WG1231708
trans-1,2-Dichloroethene	U		0.00157	0.00547	1	02/02/2019 17:51	WG1231708
1,2-Dichloropropane	U		0.00139	0.00547	1	02/03/2019 15:19	WG1231857
1,1-Dichloropropene	U		0.000766	0.00274	1	02/02/2019 17:51	WG1231708
1,3-Dichloropropane	U		0.00192	0.00547	1	02/02/2019 17:51	WG1231708
cis-1,3-Dichloropropene	U		0.000742	0.00274	1	02/02/2019 17:51	WG1231708
trans-1,3-Dichloropropene	U		0.00167	0.00547	1	02/02/2019 17:51	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00153	0.00547	1	02/02/2019 17:51	WG1231708
2,2-Dichloropropane	U		0.000868	0.00274	1	02/02/2019 17:51	WG1231708
Di-isopropyl ether	U		0.000383	0.00109	1	02/02/2019 17:51	WG1231708
Ethylbenzene	U		0.000580	0.00274	1	02/02/2019 17:51	WG1231708
Hexachloro-1,3-butadiene	U		0.0139	0.0274	1	02/02/2019 17:51	WG1231708
2-Hexanone	U		0.0109	0.0274	1	02/02/2019 17:51	WG1231708
n-Hexane	U		0.00116	0.00547	1	02/02/2019 17:51	WG1231708
Iodomethane	U		0.00662	0.0137	1	02/02/2019 17:51	WG1231708
Isopropylbenzene	U		0.000945	0.00274	1	02/02/2019 17:51	WG1231708
p-Isopropyltoluene	U		0.00255	0.00547	1	02/02/2019 17:51	WG1231708
2-Butanone (MEK)	0.0213	J	0.0137	0.0274	1	02/03/2019 15:19	WG1231857
Methylene Chloride	U		0.00727	0.0274	1	02/02/2019 17:51	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0274	1	02/02/2019 17:51	WG1231708

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/28/19 14:47

L1065738

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000323	0.00109	1	02/02/2019 17:51	WG1231708
Naphthalene	U		0.00341	0.0137	1	02/02/2019 17:51	WG1231708
n-Propylbenzene	U		0.00129	0.00547	1	02/02/2019 17:51	WG1231708
Styrene	U		0.00299	0.0137	1	02/02/2019 17:51	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000547	0.00274	1	02/02/2019 17:51	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000427	0.00274	1	02/02/2019 17:51	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000739	0.00274	1	02/02/2019 17:51	WG1231708
Tetrachloroethene	0.00190	J J4	0.000766	0.00274	1	02/02/2019 17:51	WG1231708
Toluene	U		0.00137	0.00547	1	02/02/2019 17:51	WG1231708
1,2,3-Trichlorobenzene	U		0.000684	0.00274	1	02/02/2019 17:51	WG1231708
1,2,4-Trichlorobenzene	U		0.00528	0.0137	1	02/02/2019 17:51	WG1231708
1,1,1-Trichloroethane	U		0.000301	0.00274	1	02/02/2019 17:51	WG1231708
1,1,2-Trichloroethane	U		0.000966	0.00274	1	02/02/2019 17:51	WG1231708
Trichloroethene	U		0.000438	0.00109	1	02/02/2019 17:51	WG1231708
Trichlorofluoromethane	U		0.000547	0.00274	1	02/02/2019 17:51	WG1231708
1,2,3-Trichloropropane	U		0.00558	0.0137	1	02/02/2019 17:51	WG1231708
1,2,4-Trimethylbenzene	U		0.00127	0.00547	1	02/02/2019 17:51	WG1231708
1,2,3-Trimethylbenzene	U		0.00126	0.00547	1	02/02/2019 17:51	WG1231708
1,3,5-Trimethylbenzene	U		0.00118	0.00547	1	02/02/2019 17:51	WG1231708
Vinyl acetate	U		0.00385	0.0137	1	02/02/2019 17:51	WG1231708
Vinyl chloride	U		0.000748	0.00274	1	02/02/2019 17:51	WG1231708
Xylenes, Total	U		0.00523	0.00711	1	02/02/2019 17:51	WG1231708
(S) Toluene-d8	113			75.0-131		02/02/2019 17:51	WG1231708
(S) Toluene-d8	95.8			75.0-131		02/03/2019 15:19	WG1231857
(S) Dibromofluoromethane	82.5			65.0-129		02/02/2019 17:51	WG1231708
(S) Dibromofluoromethane	112			65.0-129		02/03/2019 15:19	WG1231857
(S) 4-Bromofluorobenzene	102			67.0-138		02/02/2019 17:51	WG1231708
(S) 4-Bromofluorobenzene	110			67.0-138		02/03/2019 15:19	WG1231857

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	89.4		1	02/01/2019 13:11	WG1231192

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	1.30		0.306	0.559	20	02/03/2019 18:09	WG1231857
Acrylonitrile	U		0.00212	0.0140	1	02/02/2019 18:11	WG1231708
Benzene	0.000517	J	0.000447	0.00112	1	02/02/2019 18:11	WG1231708
Bromobenzene	U		0.00117	0.0140	1	02/02/2019 18:11	WG1231708
Bromodichloromethane	U		0.000881	0.00280	1	02/02/2019 18:11	WG1231708
Bromochloromethane	U		0.00126	0.00559	1	02/02/2019 18:11	WG1231708
Bromoform	U		0.00669	0.0280	1	02/02/2019 18:11	WG1231708
Bromomethane	U		0.00414	0.0140	1	02/02/2019 18:11	WG1231708
n-Butylbenzene	U		0.00429	0.0140	1	02/02/2019 18:11	WG1231708
sec-Butylbenzene	U		0.00283	0.0140	1	02/02/2019 18:11	WG1231708
tert-Butylbenzene	U		0.00173	0.00559	1	02/02/2019 18:11	WG1231708
Carbon disulfide	U	JO	0.00454	0.0140	1	02/02/2019 18:11	WG1231708
Carbon tetrachloride	U		0.00121	0.00559	1	02/02/2019 18:11	WG1231708
Chlorobenzene	U		0.000641	0.00280	1	02/02/2019 18:11	WG1231708
Chlorodibromomethane	U		0.000503	0.00280	1	02/02/2019 18:11	WG1231708
Chloroethane	U		0.00121	0.00559	1	02/02/2019 18:11	WG1231708
Chloroform	U		0.000464	0.00280	1	02/02/2019 18:11	WG1231708
Chloromethane	U		0.00155	0.0140	1	02/02/2019 18:11	WG1231708
2-Chlorotoluene	U		0.00103	0.00280	1	02/02/2019 18:11	WG1231708
4-Chlorotoluene	U		0.00126	0.00559	1	02/02/2019 18:11	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00570	0.0280	1	02/02/2019 18:11	WG1231708
1,2-Dibromoethane	U		0.000587	0.00280	1	02/02/2019 18:11	WG1231708
Dibromomethane	U		0.00112	0.00559	1	02/02/2019 18:11	WG1231708
1,2-Dichlorobenzene	U		0.00162	0.00559	1	02/02/2019 18:11	WG1231708
1,3-Dichlorobenzene	U		0.00190	0.00559	1	02/02/2019 18:11	WG1231708
1,4-Dichlorobenzene	U		0.00220	0.00559	1	02/02/2019 18:11	WG1231708
Dichlorodifluoromethane	U		0.000915	0.00280	1	02/02/2019 18:11	WG1231708
1,1-Dichloroethane	U		0.000643	0.00280	1	02/02/2019 18:11	WG1231708
1,2-Dichloroethane	U		0.000531	0.00280	1	02/02/2019 18:11	WG1231708
1,1-Dichloroethene	0.00751		0.000559	0.00280	1	02/02/2019 18:11	WG1231708
cis-1,2-Dichloroethene	5.83		0.0154	0.0559	20	02/03/2019 18:09	WG1231857
trans-1,2-Dichloroethene	0.0358		0.00160	0.00559	1	02/02/2019 18:11	WG1231708
1,2-Dichloropropane	U		0.0284	0.112	20	02/03/2019 18:09	WG1231857
1,1-Dichloropropene	U		0.000783	0.00280	1	02/02/2019 18:11	WG1231708
1,3-Dichloropropane	U		0.00196	0.00559	1	02/02/2019 18:11	WG1231708
cis-1,3-Dichloropropene	U		0.000758	0.00280	1	02/02/2019 18:11	WG1231708
trans-1,3-Dichloropropene	U		0.00171	0.00559	1	02/02/2019 18:11	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00157	0.00559	1	02/02/2019 18:11	WG1231708
2,2-Dichloropropane	U		0.000887	0.00280	1	02/02/2019 18:11	WG1231708
Di-isopropyl ether	U		0.000391	0.00112	1	02/02/2019 18:11	WG1231708
Ethylbenzene	U		0.000593	0.00280	1	02/02/2019 18:11	WG1231708
Hexachloro-1,3-butadiene	U		0.0142	0.0280	1	02/02/2019 18:11	WG1231708
2-Hexanone	U		0.0112	0.0280	1	02/02/2019 18:11	WG1231708
n-Hexane	U		0.00119	0.00559	1	02/02/2019 18:11	WG1231708
Iodomethane	U		0.00677	0.0140	1	02/02/2019 18:11	WG1231708
Isopropylbenzene	U		0.000965	0.00280	1	02/02/2019 18:11	WG1231708
p-Isopropyltoluene	U		0.00261	0.00559	1	02/02/2019 18:11	WG1231708
2-Butanone (MEK)	U		0.280	0.559	20	02/03/2019 18:09	WG1231857
Methylene Chloride	U		0.00743	0.0280	1	02/02/2019 18:11	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0280	1	02/02/2019 18:11	WG1231708

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		0.000330	0.00112	1	02/02/2019 18:11	WG1231708
Naphthalene	U		0.00349	0.0140	1	02/02/2019 18:11	WG1231708
n-Propylbenzene	U		0.00132	0.00559	1	02/02/2019 18:11	WG1231708
Styrene	U		0.00305	0.0140	1	02/02/2019 18:11	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000559	0.00280	1	02/02/2019 18:11	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000436	0.00280	1	02/02/2019 18:11	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000755	0.00280	1	02/02/2019 18:11	WG1231708
Tetrachloroethene	7.09		0.0157	0.0559	20	02/03/2019 18:09	WG1231857
Toluene	0.00160	L	0.00140	0.00559	1	02/02/2019 18:11	WG1231708
1,2,3-Trichlorobenzene	U		0.000699	0.00280	1	02/02/2019 18:11	WG1231708
1,2,4-Trichlorobenzene	U		0.00539	0.0140	1	02/02/2019 18:11	WG1231708
1,1,1-Trichloroethane	U		0.000308	0.00280	1	02/02/2019 18:11	WG1231708
1,1,2-Trichloroethane	U		0.000988	0.00280	1	02/02/2019 18:11	WG1231708
Trichloroethene	0.745		0.000447	0.00112	1	02/02/2019 18:11	WG1231708
Trichlorofluoromethane	U		0.000559	0.00280	1	02/02/2019 18:11	WG1231708
1,2,3-Trichloropropane	U		0.00570	0.0140	1	02/02/2019 18:11	WG1231708
1,2,4-Trimethylbenzene	0.00329	L	0.00130	0.00559	1	02/02/2019 18:11	WG1231708
1,2,3-Trimethylbenzene	0.00144	L	0.00129	0.00559	1	02/02/2019 18:11	WG1231708
1,3,5-Trimethylbenzene	0.00143	L	0.00121	0.00559	1	02/02/2019 18:11	WG1231708
Vinyl acetate	U		0.00394	0.0140	1	02/02/2019 18:11	WG1231708
Vinyl chloride	0.0322		0.000764	0.00280	1	02/02/2019 18:11	WG1231708
Xylenes, Total	U		0.00535	0.00727	1	02/02/2019 18:11	WG1231708
(S) Toluene-d8	107			75.0-131		02/02/2019 18:11	WG1231708
(S) Toluene-d8	90.3			75.0-131		02/03/2019 18:09	WG1231857
(S) Dibromofluoromethane	83.2			65.0-129		02/02/2019 18:11	WG1231708
(S) Dibromofluoromethane	131	J1		65.0-129		02/03/2019 18:09	WG1231857
(S) 4-Bromofluorobenzene	103			67.0-138		02/02/2019 18:11	WG1231708
(S) 4-Bromofluorobenzene	111			67.0-138		02/03/2019 18:09	WG1231857

Sample Narrative:

L1065738-14 WG1231857, WG1231708: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

L1065738-14 WG1231857, WG1231708: Not all compounds reportable at lower dilution.

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	92.6		1	02/01/2019 13:11	WG1231192

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.797		0.296	0.540	20	02/03/2019 18:29	WG1231857
Acrylonitrile	U		0.00205	0.0135	1	02/02/2019 18:31	WG1231708
Benzene	0.000594	J	0.000432	0.00108	1	02/02/2019 18:31	WG1231708
Bromobenzene	U		0.00113	0.0135	1	02/02/2019 18:31	WG1231708
Bromodichloromethane	U		0.000851	0.00270	1	02/02/2019 18:31	WG1231708
Bromochloromethane	U		0.00122	0.00540	1	02/02/2019 18:31	WG1231708
Bromoform	U		0.00646	0.0270	1	02/02/2019 18:31	WG1231708
Bromomethane	U		0.00400	0.0135	1	02/02/2019 18:31	WG1231708
n-Butylbenzene	U		0.00415	0.0135	1	02/02/2019 18:31	WG1231708
sec-Butylbenzene	U		0.00273	0.0135	1	02/02/2019 18:31	WG1231708
tert-Butylbenzene	U		0.00167	0.00540	1	02/02/2019 18:31	WG1231708
Carbon disulfide	U	JO	0.00439	0.0135	1	02/02/2019 18:31	WG1231708
Carbon tetrachloride	U		0.00117	0.00540	1	02/02/2019 18:31	WG1231708
Chlorobenzene	U		0.000619	0.00270	1	02/02/2019 18:31	WG1231708
Chlorodibromomethane	U		0.000486	0.00270	1	02/02/2019 18:31	WG1231708
Chloroethane	U		0.00117	0.00540	1	02/02/2019 18:31	WG1231708
Chloroform	U		0.000448	0.00270	1	02/02/2019 18:31	WG1231708
Chloromethane	U		0.00150	0.0135	1	02/02/2019 18:31	WG1231708
2-Chlorotoluene	U		0.000994	0.00270	1	02/02/2019 18:31	WG1231708
4-Chlorotoluene	U		0.00122	0.00540	1	02/02/2019 18:31	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00551	0.0270	1	02/02/2019 18:31	WG1231708
1,2-Dibromoethane	U		0.000567	0.00270	1	02/02/2019 18:31	WG1231708
Dibromomethane	U		0.00108	0.00540	1	02/02/2019 18:31	WG1231708
1,2-Dichlorobenzene	U		0.00157	0.00540	1	02/02/2019 18:31	WG1231708
1,3-Dichlorobenzene	U		0.00184	0.00540	1	02/02/2019 18:31	WG1231708
1,4-Dichlorobenzene	U		0.00213	0.00540	1	02/02/2019 18:31	WG1231708
Dichlorodifluoromethane	U		0.000884	0.00270	1	02/02/2019 18:31	WG1231708
1,1-Dichloroethane	U		0.000621	0.00270	1	02/02/2019 18:31	WG1231708
1,2-Dichloroethane	U		0.000513	0.00270	1	02/02/2019 18:31	WG1231708
1,1-Dichloroethene	0.0283		0.000540	0.00270	1	02/02/2019 18:31	WG1231708
cis-1,2-Dichloroethene	16.6		0.0149	0.0540	20	02/03/2019 18:29	WG1231857
trans-1,2-Dichloroethene	0.132		0.00154	0.00540	1	02/02/2019 18:31	WG1231708
1,2-Dichloropropane	U		0.0274	0.108	20	02/03/2019 18:29	WG1231857
1,1-Dichloropropene	U		0.000756	0.00270	1	02/02/2019 18:31	WG1231708
1,3-Dichloropropane	U		0.00189	0.00540	1	02/02/2019 18:31	WG1231708
cis-1,3-Dichloropropene	U		0.000732	0.00270	1	02/02/2019 18:31	WG1231708
trans-1,3-Dichloropropene	U		0.00165	0.00540	1	02/02/2019 18:31	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00151	0.00540	1	02/02/2019 18:31	WG1231708
2,2-Dichloropropane	U		0.000857	0.00270	1	02/02/2019 18:31	WG1231708
Di-isopropyl ether	U		0.000378	0.00108	1	02/02/2019 18:31	WG1231708
Ethylbenzene	U		0.000573	0.00270	1	02/02/2019 18:31	WG1231708
Hexachloro-1,3-butadiene	U		0.0137	0.0270	1	02/02/2019 18:31	WG1231708
2-Hexanone	U		0.0108	0.0270	1	02/02/2019 18:31	WG1231708
n-Hexane	U		0.00115	0.00540	1	02/02/2019 18:31	WG1231708
Iodomethane	U		0.00654	0.0135	1	02/02/2019 18:31	WG1231708
Isopropylbenzene	U		0.000932	0.00270	1	02/02/2019 18:31	WG1231708
p-Isopropyltoluene	U		0.00252	0.00540	1	02/02/2019 18:31	WG1231708
2-Butanone (MEK)	U		0.270	0.540	20	02/03/2019 18:29	WG1231857
Methylene Chloride	U		0.00717	0.0270	1	02/02/2019 18:31	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0270	1	02/02/2019 18:31	WG1231708

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/29/19 11:05

L1065738

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000319	0.00108	1	02/02/2019 18:31	WG1231708
Naphthalene	U		0.00337	0.0135	1	02/02/2019 18:31	WG1231708
n-Propylbenzene	U		0.00127	0.00540	1	02/02/2019 18:31	WG1231708
Styrene	U		0.00295	0.0135	1	02/02/2019 18:31	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000540	0.00270	1	02/02/2019 18:31	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000421	0.00270	1	02/02/2019 18:31	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000729	0.00270	1	02/02/2019 18:31	WG1231708
Tetrachloroethene	2.61		0.0151	0.0540	20	02/03/2019 18:29	WG1231857
Toluene	0.00254	L	0.00135	0.00540	1	02/02/2019 18:31	WG1231708
1,2,3-Trichlorobenzene	U		0.000675	0.00270	1	02/02/2019 18:31	WG1231708
1,2,4-Trichlorobenzene	U		0.00521	0.0135	1	02/02/2019 18:31	WG1231708
1,1,1-Trichloroethane	U		0.000297	0.00270	1	02/02/2019 18:31	WG1231708
1,1,2-Trichloroethane	U		0.000954	0.00270	1	02/02/2019 18:31	WG1231708
Trichloroethene	0.128		0.000432	0.00108	1	02/02/2019 18:31	WG1231708
Trichlorofluoromethane	U		0.000540	0.00270	1	02/02/2019 18:31	WG1231708
1,2,3-Trichloropropane	U		0.00551	0.0135	1	02/02/2019 18:31	WG1231708
1,2,4-Trimethylbenzene	0.00129	L	0.00125	0.00540	1	02/02/2019 18:31	WG1231708
1,2,3-Trimethylbenzene	0.00125	L	0.00124	0.00540	1	02/02/2019 18:31	WG1231708
1,3,5-Trimethylbenzene	U		0.00117	0.00540	1	02/02/2019 18:31	WG1231708
Vinyl acetate	U		0.00380	0.0135	1	02/02/2019 18:31	WG1231708
Vinyl chloride	0.189		0.000738	0.00270	1	02/02/2019 18:31	WG1231708
Xylenes, Total	U		0.00516	0.00702	1	02/02/2019 18:31	WG1231708
(S) Toluene-d8	96.0			75.0-131		02/02/2019 18:31	WG1231708
(S) Toluene-d8	94.7			75.0-131		02/03/2019 18:29	WG1231857
(S) Dibromofluoromethane	85.1			65.0-129		02/02/2019 18:31	WG1231708
(S) Dibromofluoromethane	132	J1		65.0-129		02/03/2019 18:29	WG1231857
(S) 4-Bromofluorobenzene	102			67.0-138		02/02/2019 18:31	WG1231708
(S) 4-Bromofluorobenzene	110			67.0-138		02/03/2019 18:29	WG1231857

Sample Narrative:

L1065738-15 WG1231857, WG1231708: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

L1065738-15 WG1231857, WG1231708: Not all compounds reportable at lower dilution.

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	91.4		1	02/01/2019 13:11	WG1231192

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	1.36		0.336	0.613	22.4	02/03/2019 18:47	WG1231857
Acrylonitrile	U		0.00233	0.0153	1.12	02/02/2019 18:52	WG1231708
Benzene	0.000680	J	0.000490	0.00123	1.12	02/02/2019 18:52	WG1231708
Bromobenzene	U		0.00129	0.0153	1.12	02/02/2019 18:52	WG1231708
Bromodichloromethane	U		0.000965	0.00306	1.12	02/02/2019 18:52	WG1231708
Bromochloromethane	U		0.00138	0.00613	1.12	02/02/2019 18:52	WG1231708
Bromoform	U		0.00733	0.0306	1.12	02/02/2019 18:52	WG1231708
Bromomethane	U		0.00453	0.0153	1.12	02/02/2019 18:52	WG1231708
n-Butylbenzene	U		0.00471	0.0153	1.12	02/02/2019 18:52	WG1231708
sec-Butylbenzene	U		0.00310	0.0153	1.12	02/02/2019 18:52	WG1231708
tert-Butylbenzene	U		0.00190	0.00613	1.12	02/02/2019 18:52	WG1231708
Carbon disulfide	U	JO	0.00498	0.0153	1.12	02/02/2019 18:52	WG1231708
Carbon tetrachloride	U		0.00132	0.00613	1.12	02/02/2019 18:52	WG1231708
Chlorobenzene	U		0.000703	0.00306	1.12	02/02/2019 18:52	WG1231708
Chlorodibromomethane	U		0.000552	0.00306	1.12	02/02/2019 18:52	WG1231708
Chloroethane	U		0.00132	0.00613	1.12	02/02/2019 18:52	WG1231708
Chloroform	U		0.000509	0.00306	1.12	02/02/2019 18:52	WG1231708
Chloromethane	U		0.00171	0.0153	1.12	02/02/2019 18:52	WG1231708
2-Chlorotoluene	U		0.00113	0.00306	1.12	02/02/2019 18:52	WG1231708
4-Chlorotoluene	U		0.00138	0.00613	1.12	02/02/2019 18:52	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00625	0.0306	1.12	02/02/2019 18:52	WG1231708
1,2-Dibromoethane	U		0.000643	0.00306	1.12	02/02/2019 18:52	WG1231708
Dibromomethane	U		0.00123	0.00613	1.12	02/02/2019 18:52	WG1231708
1,2-Dichlorobenzene	U		0.00177	0.00613	1.12	02/02/2019 18:52	WG1231708
1,3-Dichlorobenzene	U		0.00208	0.00613	1.12	02/02/2019 18:52	WG1231708
1,4-Dichlorobenzene	U		0.00242	0.00613	1.12	02/02/2019 18:52	WG1231708
Dichlorodifluoromethane	U		0.00100	0.00306	1.12	02/02/2019 18:52	WG1231708
1,1-Dichloroethane	U		0.000705	0.00306	1.12	02/02/2019 18:52	WG1231708
1,2-Dichloroethane	U		0.000582	0.00306	1.12	02/02/2019 18:52	WG1231708
1,1-Dichloroethene	0.0286		0.000613	0.00306	1.12	02/02/2019 18:52	WG1231708
cis-1,2-Dichloroethene	6.47		0.0169	0.0613	22.4	02/03/2019 18:47	WG1231857
trans-1,2-Dichloroethene	0.0326		0.00175	0.00613	1.12	02/02/2019 18:52	WG1231708
1,2-Dichloropropane	U		0.0311	0.123	22.4	02/03/2019 18:47	WG1231857
1,1-Dichloropropene	U		0.000858	0.00306	1.12	02/02/2019 18:52	WG1231708
1,3-Dichloropropane	U		0.00214	0.00613	1.12	02/02/2019 18:52	WG1231708
cis-1,3-Dichloropropene	U		0.000831	0.00306	1.12	02/02/2019 18:52	WG1231708
trans-1,3-Dichloropropene	U		0.00187	0.00613	1.12	02/02/2019 18:52	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00172	0.00613	1.12	02/02/2019 18:52	WG1231708
2,2-Dichloropropane	U		0.000972	0.00306	1.12	02/02/2019 18:52	WG1231708
Di-isopropyl ether	U		0.000429	0.00123	1.12	02/02/2019 18:52	WG1231708
Ethylbenzene	U		0.000650	0.00306	1.12	02/02/2019 18:52	WG1231708
Hexachloro-1,3-butadiene	U		0.0155	0.0306	1.12	02/02/2019 18:52	WG1231708
2-Hexanone	U		0.0123	0.0306	1.12	02/02/2019 18:52	WG1231708
n-Hexane	U		0.00130	0.00613	1.12	02/02/2019 18:52	WG1231708
Iodomethane	U		0.00742	0.0153	1.12	02/02/2019 18:52	WG1231708
Isopropylbenzene	U		0.00106	0.00306	1.12	02/02/2019 18:52	WG1231708
p-Isopropyltoluene	U		0.00286	0.00613	1.12	02/02/2019 18:52	WG1231708
2-Butanone (MEK)	U		0.306	0.613	22.4	02/03/2019 18:47	WG1231857
Methylene Chloride	U		0.00814	0.0306	1.12	02/02/2019 18:52	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0123	0.0306	1.12	02/02/2019 18:52	WG1231708

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/29/19 11:07

L1065738

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000361	0.00123	1.12	02/02/2019 18:52	WG1231708
Naphthalene	U		0.00382	0.0153	1.12	02/02/2019 18:52	WG1231708
n-Propylbenzene	U		0.00144	0.00613	1.12	02/02/2019 18:52	WG1231708
Styrene	U		0.00335	0.0153	1.12	02/02/2019 18:52	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000613	0.00306	1.12	02/02/2019 18:52	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000478	0.00306	1.12	02/02/2019 18:52	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000827	0.00306	1.12	02/02/2019 18:52	WG1231708
Tetrachloroethene	1.66	J4	0.000858	0.00306	1.12	02/02/2019 18:52	WG1231708
Toluene	0.00286	J	0.00153	0.00613	1.12	02/02/2019 18:52	WG1231708
1,2,3-Trichlorobenzene	U		0.000766	0.00306	1.12	02/02/2019 18:52	WG1231708
1,2,4-Trichlorobenzene	U		0.00591	0.0153	1.12	02/02/2019 18:52	WG1231708
1,1,1-Trichloroethane	U		0.000337	0.00306	1.12	02/02/2019 18:52	WG1231708
1,1,2-Trichloroethane	U		0.00108	0.00306	1.12	02/02/2019 18:52	WG1231708
Trichloroethene	2.32		0.000490	0.00123	1.12	02/02/2019 18:52	WG1231708
Trichlorofluoromethane	U		0.000613	0.00306	1.12	02/02/2019 18:52	WG1231708
1,2,3-Trichloropropane	U		0.00625	0.0153	1.12	02/02/2019 18:52	WG1231708
1,2,4-Trimethylbenzene	U		0.00142	0.00613	1.12	02/02/2019 18:52	WG1231708
1,2,3-Trimethylbenzene	U		0.00141	0.00613	1.12	02/02/2019 18:52	WG1231708
1,3,5-Trimethylbenzene	U		0.00132	0.00613	1.12	02/02/2019 18:52	WG1231708
Vinyl acetate	U		0.00431	0.0153	1.12	02/02/2019 18:52	WG1231708
Vinyl chloride	0.00971		0.000837	0.00306	1.12	02/02/2019 18:52	WG1231708
Xylenes, Total	U		0.00585	0.00797	1.12	02/02/2019 18:52	WG1231708
(S) Toluene-d8	101			75.0-131		02/02/2019 18:52	WG1231708
(S) Toluene-d8	95.0			75.0-131		02/03/2019 18:47	WG1231857
(S) Dibromofluoromethane	85.2			65.0-129		02/02/2019 18:52	WG1231708
(S) Dibromofluoromethane	132	J1		65.0-129		02/03/2019 18:47	WG1231857
(S) 4-Bromofluorobenzene	104			67.0-138		02/02/2019 18:52	WG1231708
(S) 4-Bromofluorobenzene	122			67.0-138		02/03/2019 18:47	WG1231857

Sample Narrative:

L1065738-16 WG1231857, WG1231708: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

L1065738-16 WG1231857, WG1231708: Not all compounds reportable at lower dilution.

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	88.3		1	02/01/2019 13:11	WG1231192

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.658		0.310	0.566	20	02/03/2019 19:06	WG1231857
Acrylonitrile	U		0.00215	0.0142	1	02/02/2019 19:12	WG1231708
Benzene	U		0.000453	0.00113	1	02/02/2019 19:12	WG1231708
Bromobenzene	U		0.00119	0.0142	1	02/02/2019 19:12	WG1231708
Bromodichloromethane	U		0.000892	0.00283	1	02/02/2019 19:12	WG1231708
Bromochloromethane	U		0.00128	0.00566	1	02/02/2019 19:12	WG1231708
Bromoform	U		0.00677	0.0283	1	02/02/2019 19:12	WG1231708
Bromomethane	U		0.00419	0.0142	1	02/02/2019 19:12	WG1231708
n-Butylbenzene	U		0.00435	0.0142	1	02/02/2019 19:12	WG1231708
sec-Butylbenzene	U		0.00286	0.0142	1	02/02/2019 19:12	WG1231708
tert-Butylbenzene	U		0.00175	0.00566	1	02/02/2019 19:12	WG1231708
Carbon disulfide	U	JO	0.00460	0.0142	1	02/02/2019 19:12	WG1231708
Carbon tetrachloride	U		0.00122	0.00566	1	02/02/2019 19:12	WG1231708
Chlorobenzene	U		0.000649	0.00283	1	02/02/2019 19:12	WG1231708
Chlorodibromomethane	U		0.000509	0.00283	1	02/02/2019 19:12	WG1231708
Chloroethane	U		0.00122	0.00566	1	02/02/2019 19:12	WG1231708
Chloroform	U		0.000470	0.00283	1	02/02/2019 19:12	WG1231708
Chloromethane	U		0.00157	0.0142	1	02/02/2019 19:12	WG1231708
2-Chlorotoluene	U		0.00104	0.00283	1	02/02/2019 19:12	WG1231708
4-Chlorotoluene	U		0.00128	0.00566	1	02/02/2019 19:12	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00577	0.0283	1	02/02/2019 19:12	WG1231708
1,2-Dibromoethane	U		0.000594	0.00283	1	02/02/2019 19:12	WG1231708
Dibromomethane	U		0.00113	0.00566	1	02/02/2019 19:12	WG1231708
1,2-Dichlorobenzene	U		0.00164	0.00566	1	02/02/2019 19:12	WG1231708
1,3-Dichlorobenzene	U		0.00192	0.00566	1	02/02/2019 19:12	WG1231708
1,4-Dichlorobenzene	U		0.00223	0.00566	1	02/02/2019 19:12	WG1231708
Dichlorodifluoromethane	U		0.000926	0.00283	1	02/02/2019 19:12	WG1231708
1,1-Dichloroethane	U		0.000651	0.00283	1	02/02/2019 19:12	WG1231708
1,2-Dichloroethane	U		0.000538	0.00283	1	02/02/2019 19:12	WG1231708
1,1-Dichloroethene	0.0226		0.000566	0.00283	1	02/02/2019 19:12	WG1231708
cis-1,2-Dichloroethene	4.64		0.0156	0.0566	20	02/03/2019 19:06	WG1231857
trans-1,2-Dichloroethene	0.0192		0.00162	0.00566	1	02/02/2019 19:12	WG1231708
1,2-Dichloropropane	U		0.0288	0.113	20	02/03/2019 19:06	WG1231857
1,1-Dichloropropene	U		0.000792	0.00283	1	02/02/2019 19:12	WG1231708
1,3-Dichloropropane	U		0.00198	0.00566	1	02/02/2019 19:12	WG1231708
cis-1,3-Dichloropropene	U		0.000768	0.00283	1	02/02/2019 19:12	WG1231708
trans-1,3-Dichloropropene	U		0.00173	0.00566	1	02/02/2019 19:12	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00158	0.00566	1	02/02/2019 19:12	WG1231708
2,2-Dichloropropane	U		0.000898	0.00283	1	02/02/2019 19:12	WG1231708
Di-isopropyl ether	U		0.000396	0.00113	1	02/02/2019 19:12	WG1231708
Ethylbenzene	U		0.000600	0.00283	1	02/02/2019 19:12	WG1231708
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	02/02/2019 19:12	WG1231708
2-Hexanone	U		0.0113	0.0283	1	02/02/2019 19:12	WG1231708
n-Hexane	U		0.00120	0.00566	1	02/02/2019 19:12	WG1231708
Iodomethane	U		0.00685	0.0142	1	02/02/2019 19:12	WG1231708
Isopropylbenzene	U		0.000977	0.00283	1	02/02/2019 19:12	WG1231708
p-Isopropyltoluene	U		0.00264	0.00566	1	02/02/2019 19:12	WG1231708
2-Butanone (MEK)	U		0.283	0.566	20	02/03/2019 19:06	WG1231857
Methylene Chloride	U		0.00752	0.0283	1	02/02/2019 19:12	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	02/02/2019 19:12	WG1231708





Collected date/time: 01/29/19 11:09

L1065738

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000334	0.00113	1	02/02/2019 19:12	WG1231708
Naphthalene	U		0.00353	0.0142	1	02/02/2019 19:12	WG1231708
n-Propylbenzene	U		0.00134	0.00566	1	02/02/2019 19:12	WG1231708
Styrene	U		0.00309	0.0142	1	02/02/2019 19:12	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000566	0.00283	1	02/02/2019 19:12	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000442	0.00283	1	02/02/2019 19:12	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000764	0.00283	1	02/02/2019 19:12	WG1231708
Tetrachloroethene	6.69		0.0158	0.0566	20	02/03/2019 19:06	WG1231857
Toluene	0.00189	L	0.00142	0.00566	1	02/02/2019 19:12	WG1231708
1,2,3-Trichlorobenzene	U		0.000708	0.00283	1	02/02/2019 19:12	WG1231708
1,2,4-Trichlorobenzene	U		0.00546	0.0142	1	02/02/2019 19:12	WG1231708
1,1,1-Trichloroethane	U		0.000311	0.00283	1	02/02/2019 19:12	WG1231708
1,1,2-Trichloroethane	U		0.00100	0.00283	1	02/02/2019 19:12	WG1231708
Trichloroethene	3.59	J4	0.00906	0.0226	20	02/03/2019 19:06	WG1231857
Trichlorofluoromethane	U		0.000566	0.00283	1	02/02/2019 19:12	WG1231708
1,2,3-Trichloropropane	U		0.00577	0.0142	1	02/02/2019 19:12	WG1231708
1,2,4-Trimethylbenzene	0.00318	L	0.00131	0.00566	1	02/02/2019 19:12	WG1231708
1,2,3-Trimethylbenzene	0.00146	L	0.00130	0.00566	1	02/02/2019 19:12	WG1231708
1,3,5-Trimethylbenzene	0.00147	L	0.00122	0.00566	1	02/02/2019 19:12	WG1231708
Vinyl acetate	U		0.00398	0.0142	1	02/02/2019 19:12	WG1231708
Vinyl chloride	0.00599		0.000773	0.00283	1	02/02/2019 19:12	WG1231708
Xylenes, Total	U		0.00541	0.00736	1	02/02/2019 19:12	WG1231708
(S) Toluene-d8	101			75.0-131		02/02/2019 19:12	WG1231708
(S) Toluene-d8	88.4			75.0-131		02/03/2019 19:06	WG1231857
(S) Dibromofluoromethane	84.1			65.0-129		02/02/2019 19:12	WG1231708
(S) Dibromofluoromethane	134	J1		65.0-129		02/03/2019 19:06	WG1231857
(S) 4-Bromofluorobenzene	105			67.0-138		02/02/2019 19:12	WG1231708
(S) 4-Bromofluorobenzene	104			67.0-138		02/03/2019 19:06	WG1231857

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

Sample Narrative:

L1065738-17 WG1231857, WG1231708: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

L1065738-17 WG1231857, WG1231708: Not all compounds reportable at lower dilution.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.9		1	02/01/2019 11:16	WG1231193

Volatile Organic Compounds (GC/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	0.0156	0.0284	1	02/03/2019 15:38	WG1231857
Acrylonitrile	U		0.00216	0.0142	1	02/02/2019 19:32	WG1231708
Benzene	U		0.000455	0.00114	1	02/02/2019 19:32	WG1231708
Bromobenzene	U		0.00119	0.0142	1	02/02/2019 19:32	WG1231708
Bromodichloromethane	U		0.000896	0.00284	1	02/02/2019 19:32	WG1231708
Bromochloromethane	U		0.00128	0.00569	1	02/02/2019 19:32	WG1231708
Bromoform	U		0.00680	0.0284	1	02/02/2019 19:32	WG1231708
Bromomethane	U		0.00421	0.0142	1	02/02/2019 19:32	WG1231708
n-Butylbenzene	U		0.00437	0.0142	1	02/02/2019 19:32	WG1231708
sec-Butylbenzene	U		0.00288	0.0142	1	02/02/2019 19:32	WG1231708
tert-Butylbenzene	U		0.00176	0.00569	1	02/02/2019 19:32	WG1231708
Carbon disulfide	U	JO	0.00462	0.0142	1	02/02/2019 19:32	WG1231708
Carbon tetrachloride	U		0.00123	0.00569	1	02/02/2019 19:32	WG1231708
Chlorobenzene	U		0.000652	0.00284	1	02/02/2019 19:32	WG1231708
Chlorodibromomethane	U		0.000512	0.00284	1	02/02/2019 19:32	WG1231708
Chloroethane	U		0.00123	0.00569	1	02/02/2019 19:32	WG1231708
Chloroform	U		0.000472	0.00284	1	02/02/2019 19:32	WG1231708
Chloromethane	U		0.00158	0.0142	1	02/02/2019 19:32	WG1231708
2-Chlorotoluene	U		0.00105	0.00284	1	02/02/2019 19:32	WG1231708
4-Chlorotoluene	U		0.00128	0.00569	1	02/02/2019 19:32	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00580	0.0284	1	02/02/2019 19:32	WG1231708
1,2-Dibromoethane	U		0.000597	0.00284	1	02/02/2019 19:32	WG1231708
Dibromomethane	U		0.00114	0.00569	1	02/02/2019 19:32	WG1231708
1,2-Dichlorobenzene	U		0.00165	0.00569	1	02/02/2019 19:32	WG1231708
1,3-Dichlorobenzene	U		0.00193	0.00569	1	02/02/2019 19:32	WG1231708
1,4-Dichlorobenzene	U		0.00224	0.00569	1	02/02/2019 19:32	WG1231708
Dichlorodifluoromethane	U		0.000930	0.00284	1	02/02/2019 19:32	WG1231708
1,1-Dichloroethane	U		0.000654	0.00284	1	02/02/2019 19:32	WG1231708
1,2-Dichloroethane	U		0.000540	0.00284	1	02/02/2019 19:32	WG1231708
1,1-Dichloroethene	0.00410		0.000569	0.00284	1	02/02/2019 19:32	WG1231708
cis-1,2-Dichloroethene	0.0732		0.000785	0.00284	1	02/03/2019 15:38	WG1231857
trans-1,2-Dichloroethene	0.00306	J	0.00163	0.00569	1	02/02/2019 19:32	WG1231708
1,2-Dichloropropane	U		0.00144	0.00569	1	02/03/2019 15:38	WG1231857
1,1-Dichloropropene	U		0.000796	0.00284	1	02/02/2019 19:32	WG1231708
1,3-Dichloropropane	U		0.00199	0.00569	1	02/02/2019 19:32	WG1231708
cis-1,3-Dichloropropene	U		0.000771	0.00284	1	02/02/2019 19:32	WG1231708
trans-1,3-Dichloropropene	U		0.00174	0.00569	1	02/02/2019 19:32	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00159	0.00569	1	02/02/2019 19:32	WG1231708
2,2-Dichloropropane	U		0.000902	0.00284	1	02/02/2019 19:32	WG1231708
Di-isopropyl ether	U		0.000398	0.00114	1	02/02/2019 19:32	WG1231708
Ethylbenzene	U		0.000603	0.00284	1	02/02/2019 19:32	WG1231708
Hexachloro-1,3-butadiene	U		0.0144	0.0284	1	02/02/2019 19:32	WG1231708
2-Hexanone	U		0.0114	0.0284	1	02/02/2019 19:32	WG1231708
n-Hexane	U		0.00121	0.00569	1	02/02/2019 19:32	WG1231708
Iodomethane	U		0.00688	0.0142	1	02/02/2019 19:32	WG1231708
Isopropylbenzene	U		0.000981	0.00284	1	02/02/2019 19:32	WG1231708
p-Isopropyltoluene	U		0.00265	0.00569	1	02/02/2019 19:32	WG1231708
2-Butanone (MEK)	0.0218	J	0.0142	0.0284	1	02/03/2019 15:38	WG1231857
Methylene Chloride	U		0.00755	0.0284	1	02/02/2019 19:32	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0284	1	02/02/2019 19:32	WG1231708





Collected date/time: 01/29/19 11:55

L1065738

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000335	0.00114	1	02/02/2019 19:32	WG1231708
Naphthalene	U		0.00355	0.0142	1	02/02/2019 19:32	WG1231708
n-Propylbenzene	U		0.00134	0.00569	1	02/02/2019 19:32	WG1231708
Styrene	U		0.00310	0.0142	1	02/02/2019 19:32	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000569	0.00284	1	02/02/2019 19:32	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000443	0.00284	1	02/02/2019 19:32	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000768	0.00284	1	02/02/2019 19:32	WG1231708
Tetrachloroethene	0.0191		0.000796	0.00284	1	02/03/2019 15:38	WG1231857
Toluene	U		0.00142	0.00569	1	02/02/2019 19:32	WG1231708
1,2,3-Trichlorobenzene	U		0.000711	0.00284	1	02/02/2019 19:32	WG1231708
1,2,4-Trichlorobenzene	U		0.00548	0.0142	1	02/02/2019 19:32	WG1231708
1,1,1-Trichloroethane	U		0.000313	0.00284	1	02/02/2019 19:32	WG1231708
1,1,2-Trichloroethane	U		0.00100	0.00284	1	02/02/2019 19:32	WG1231708
Trichloroethene	0.0388	J4	0.000455	0.00114	1	02/03/2019 15:38	WG1231857
Trichlorofluoromethane	U		0.000569	0.00284	1	02/02/2019 19:32	WG1231708
1,2,3-Trichloropropane	U		0.00580	0.0142	1	02/02/2019 19:32	WG1231708
1,2,4-Trimethylbenzene	U		0.00132	0.00569	1	02/02/2019 19:32	WG1231708
1,2,3-Trimethylbenzene	U		0.00131	0.00569	1	02/02/2019 19:32	WG1231708
1,3,5-Trimethylbenzene	U		0.00123	0.00569	1	02/02/2019 19:32	WG1231708
Vinyl acetate	U		0.00400	0.0142	1	02/02/2019 19:32	WG1231708
Vinyl chloride	U		0.000777	0.00284	1	02/02/2019 19:32	WG1231708
Xylenes, Total	U		0.00544	0.00739	1	02/02/2019 19:32	WG1231708
(S) Toluene-d8	113			75.0-131		02/02/2019 19:32	WG1231708
(S) Toluene-d8	91.6			75.0-131		02/03/2019 15:38	WG1231857
(S) Dibromofluoromethane	83.5			65.0-129		02/02/2019 19:32	WG1231708
(S) Dibromofluoromethane	121			65.0-129		02/03/2019 15:38	WG1231857
(S) 4-Bromofluorobenzene	103			67.0-138		02/02/2019 19:32	WG1231708
(S) 4-Bromofluorobenzene	123			67.0-138		02/03/2019 15:38	WG1231857

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

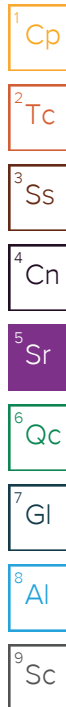


Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.5		1	02/01/2019 11:16	WG1231193

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0289	J	0.0162	0.0296	1	02/03/2019 15:57	WG1231857
Acrylonitrile	U		0.00225	0.0148	1	02/02/2019 19:53	WG1231708
Benzene	U		0.000473	0.00118	1	02/02/2019 19:53	WG1231708
Bromobenzene	U		0.00124	0.0148	1	02/02/2019 19:53	WG1231708
Bromodichloromethane	U		0.000933	0.00296	1	02/02/2019 19:53	WG1231708
Bromochloromethane	U		0.00134	0.00592	1	02/02/2019 19:53	WG1231708
Bromoform	U		0.00708	0.0296	1	02/02/2019 19:53	WG1231708
Bromomethane	U		0.00438	0.0148	1	02/02/2019 19:53	WG1231708
n-Butylbenzene	U		0.00454	0.0148	1	02/02/2019 19:53	WG1231708
sec-Butylbenzene	U		0.00299	0.0148	1	02/02/2019 19:53	WG1231708
tert-Butylbenzene	U		0.00183	0.00592	1	02/02/2019 19:53	WG1231708
Carbon disulfide	U	JO	0.00481	0.0148	1	02/02/2019 19:53	WG1231708
Carbon tetrachloride	U		0.00128	0.00592	1	02/02/2019 19:53	WG1231708
Chlorobenzene	U		0.000678	0.00296	1	02/02/2019 19:53	WG1231708
Chlorodibromomethane	U		0.000533	0.00296	1	02/02/2019 19:53	WG1231708
Chloroethane	U		0.00128	0.00592	1	02/02/2019 19:53	WG1231708
Chloroform	U		0.000491	0.00296	1	02/02/2019 19:53	WG1231708
Chloromethane	U		0.00165	0.0148	1	02/02/2019 19:53	WG1231708
2-Chlorotoluene	U		0.00109	0.00296	1	02/02/2019 19:53	WG1231708
4-Chlorotoluene	U		0.00134	0.00592	1	02/02/2019 19:53	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00604	0.0296	1	02/02/2019 19:53	WG1231708
1,2-Dibromoethane	U		0.000621	0.00296	1	02/02/2019 19:53	WG1231708
Dibromomethane	U		0.00118	0.00592	1	02/02/2019 19:53	WG1231708
1,2-Dichlorobenzene	U		0.00172	0.00592	1	02/02/2019 19:53	WG1231708
1,3-Dichlorobenzene	U		0.00201	0.00592	1	02/02/2019 19:53	WG1231708
1,4-Dichlorobenzene	U		0.00233	0.00592	1	02/02/2019 19:53	WG1231708
Dichlorodifluoromethane	U		0.000968	0.00296	1	02/02/2019 19:53	WG1231708
1,1-Dichloroethane	U		0.000681	0.00296	1	02/02/2019 19:53	WG1231708
1,2-Dichloroethane	U		0.000562	0.00296	1	02/02/2019 19:53	WG1231708
1,1-Dichloroethene	U		0.000592	0.00296	1	02/02/2019 19:53	WG1231708
cis-1,2-Dichloroethene	0.000916	J	0.000817	0.00296	1	02/03/2019 15:57	WG1231857
trans-1,2-Dichloroethene	U		0.00169	0.00592	1	02/02/2019 19:53	WG1231708
1,2-Dichloropropane	U		0.00150	0.00592	1	02/03/2019 15:57	WG1231857
1,1-Dichloropropene	U		0.000828	0.00296	1	02/02/2019 19:53	WG1231708
1,3-Dichloropropane	U		0.00207	0.00592	1	02/02/2019 19:53	WG1231708
cis-1,3-Dichloropropene	U		0.000802	0.00296	1	02/02/2019 19:53	WG1231708
trans-1,3-Dichloropropene	U		0.00181	0.00592	1	02/02/2019 19:53	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00166	0.00592	1	02/02/2019 19:53	WG1231708
2,2-Dichloropropane	U		0.000939	0.00296	1	02/02/2019 19:53	WG1231708
Di-isopropyl ether	U		0.000414	0.00118	1	02/02/2019 19:53	WG1231708
Ethylbenzene	U		0.000627	0.00296	1	02/02/2019 19:53	WG1231708
Hexachloro-1,3-butadiene	U		0.0150	0.0296	1	02/02/2019 19:53	WG1231708
2-Hexanone	U		0.0118	0.0296	1	02/02/2019 19:53	WG1231708
n-Hexane	U		0.00125	0.00592	1	02/02/2019 19:53	WG1231708
Iodomethane	U		0.00716	0.0148	1	02/02/2019 19:53	WG1231708
Isopropylbenzene	U		0.00102	0.00296	1	02/02/2019 19:53	WG1231708
p-Isopropyltoluene	U		0.00276	0.00592	1	02/02/2019 19:53	WG1231708
2-Butanone (MEK)	0.0227	J	0.0148	0.0296	1	02/03/2019 15:57	WG1231857
Methylene Chloride	U		0.00786	0.0296	1	02/02/2019 19:53	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0296	1	02/02/2019 19:53	WG1231708





Collected date/time: 01/29/19 11:57

L1065738

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000349	0.00118	1	02/02/2019 19:53	WG1231708
Naphthalene	U		0.00369	0.0148	1	02/02/2019 19:53	WG1231708
n-Propylbenzene	U		0.00140	0.00592	1	02/02/2019 19:53	WG1231708
Styrene	U		0.00323	0.0148	1	02/02/2019 19:53	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000592	0.00296	1	02/02/2019 19:53	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000462	0.00296	1	02/02/2019 19:53	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000799	0.00296	1	02/02/2019 19:53	WG1231708
Tetrachloroethene	0.00202	J	0.000828	0.00296	1	02/03/2019 15:57	WG1231857
Toluene	U		0.00148	0.00592	1	02/02/2019 19:53	WG1231708
1,2,3-Trichlorobenzene	U		0.000740	0.00296	1	02/02/2019 19:53	WG1231708
1,2,4-Trichlorobenzene	U		0.00570	0.0148	1	02/02/2019 19:53	WG1231708
1,1,1-Trichloroethane	U		0.000325	0.00296	1	02/02/2019 19:53	WG1231708
1,1,2-Trichloroethane	U		0.00105	0.00296	1	02/02/2019 19:53	WG1231708
Trichloroethene	U	J4	0.000473	0.00118	1	02/03/2019 15:57	WG1231857
Trichlorofluoromethane	U		0.000592	0.00296	1	02/02/2019 19:53	WG1231708
1,2,3-Trichloropropane	U		0.00604	0.0148	1	02/02/2019 19:53	WG1231708
1,2,4-Trimethylbenzene	U		0.00137	0.00592	1	02/02/2019 19:53	WG1231708
1,2,3-Trimethylbenzene	U		0.00136	0.00592	1	02/02/2019 19:53	WG1231708
1,3,5-Trimethylbenzene	U		0.00128	0.00592	1	02/02/2019 19:53	WG1231708
Vinyl acetate	U		0.00417	0.0148	1	02/02/2019 19:53	WG1231708
Vinyl chloride	U		0.000808	0.00296	1	02/02/2019 19:53	WG1231708
Xylenes, Total	U		0.00566	0.00769	1	02/02/2019 19:53	WG1231708
(S) Toluene-d8	111			75.0-131		02/02/2019 19:53	WG1231708
(S) Toluene-d8	81.6			75.0-131		02/03/2019 15:57	WG1231857
(S) Dibromofluoromethane	82.7			65.0-129		02/02/2019 19:53	WG1231708
(S) Dibromofluoromethane	116			65.0-129		02/03/2019 15:57	WG1231857
(S) 4-Bromofluorobenzene	101			67.0-138		02/02/2019 19:53	WG1231708
(S) 4-Bromofluorobenzene	116			67.0-138		02/03/2019 15:57	WG1231857

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	92.2		1	02/01/2019 11:16	WG1231193

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0249	J	0.0149	0.0271	1	02/03/2019 16:16	WG1231857
Acrylonitrile	U		0.00206	0.0136	1	02/02/2019 20:13	WG1231708
Benzene	U		0.000434	0.00108	1	02/02/2019 20:13	WG1231708
Bromobenzene	U		0.00114	0.0136	1	02/02/2019 20:13	WG1231708
Bromodichloromethane	U		0.000855	0.00271	1	02/02/2019 20:13	WG1231708
Bromochloromethane	U		0.00123	0.00542	1	02/02/2019 20:13	WG1231708
Bromoform	U		0.00648	0.0271	1	02/02/2019 20:13	WG1231708
Bromomethane	U		0.00401	0.0136	1	02/02/2019 20:13	WG1231708
n-Butylbenzene	U		0.00416	0.0136	1	02/02/2019 20:13	WG1231708
sec-Butylbenzene	U		0.00274	0.0136	1	02/02/2019 20:13	WG1231708
tert-Butylbenzene	U		0.00168	0.00542	1	02/02/2019 20:13	WG1231708
Carbon disulfide	U	JO	0.00440	0.0136	1	02/02/2019 20:13	WG1231708
Carbon tetrachloride	U		0.00117	0.00542	1	02/02/2019 20:13	WG1231708
Chlorobenzene	U		0.000621	0.00271	1	02/02/2019 20:13	WG1231708
Chlorodibromomethane	U		0.000488	0.00271	1	02/02/2019 20:13	WG1231708
Chloroethane	U		0.00117	0.00542	1	02/02/2019 20:13	WG1231708
Chloroform	U		0.000450	0.00271	1	02/02/2019 20:13	WG1231708
Chloromethane	U		0.00151	0.0136	1	02/02/2019 20:13	WG1231708
2-Chlorotoluene	U		0.000998	0.00271	1	02/02/2019 20:13	WG1231708
4-Chlorotoluene	U		0.00123	0.00542	1	02/02/2019 20:13	WG1231708
1,2-Dibromo-3-Chloropropane	U		0.00553	0.0271	1	02/02/2019 20:13	WG1231708
1,2-Dibromoethane	U		0.000569	0.00271	1	02/02/2019 20:13	WG1231708
Dibromomethane	U		0.00108	0.00542	1	02/02/2019 20:13	WG1231708
1,2-Dichlorobenzene	U		0.00157	0.00542	1	02/02/2019 20:13	WG1231708
1,3-Dichlorobenzene	U		0.00184	0.00542	1	02/02/2019 20:13	WG1231708
1,4-Dichlorobenzene	U		0.00214	0.00542	1	02/02/2019 20:13	WG1231708
Dichlorodifluoromethane	U		0.000887	0.00271	1	02/02/2019 20:13	WG1231708
1,1-Dichloroethane	U		0.000624	0.00271	1	02/02/2019 20:13	WG1231708
1,2-Dichloroethane	U		0.000515	0.00271	1	02/02/2019 20:13	WG1231708
1,1-Dichloroethene	0.00490		0.000542	0.00271	1	02/02/2019 20:13	WG1231708
cis-1,2-Dichloroethene	0.136		0.000748	0.00271	1	02/02/2019 20:13	WG1231708
trans-1,2-Dichloroethene	0.00614		0.00155	0.00542	1	02/02/2019 20:13	WG1231708
1,2-Dichloropropane	U		0.00138	0.00542	1	02/03/2019 16:16	WG1231857
1,1-Dichloropropene	U		0.000759	0.00271	1	02/02/2019 20:13	WG1231708
1,3-Dichloropropane	U		0.00190	0.00542	1	02/02/2019 20:13	WG1231708
cis-1,3-Dichloropropene	U		0.000735	0.00271	1	02/02/2019 20:13	WG1231708
trans-1,3-Dichloropropene	U		0.00166	0.00542	1	02/02/2019 20:13	WG1231708
trans-1,4-Dichloro-2-butene	U		0.00152	0.00542	1	02/02/2019 20:13	WG1231708
2,2-Dichloropropane	U		0.000860	0.00271	1	02/02/2019 20:13	WG1231708
Di-isopropyl ether	U		0.000380	0.00108	1	02/02/2019 20:13	WG1231708
Ethylbenzene	U		0.000575	0.00271	1	02/02/2019 20:13	WG1231708
Hexachloro-1,3-butadiene	U		0.0138	0.0271	1	02/02/2019 20:13	WG1231708
2-Hexanone	U		0.0108	0.0271	1	02/02/2019 20:13	WG1231708
n-Hexane	U		0.00115	0.00542	1	02/02/2019 20:13	WG1231708
Iodomethane	U		0.00656	0.0136	1	02/02/2019 20:13	WG1231708
Isopropylbenzene	U		0.000936	0.00271	1	02/02/2019 20:13	WG1231708
p-Isopropyltoluene	U		0.00253	0.00542	1	02/02/2019 20:13	WG1231708
2-Butanone (MEK)	0.0197	J	0.0136	0.0271	1	02/03/2019 16:16	WG1231857
Methylene Chloride	U		0.00720	0.0271	1	02/02/2019 20:13	WG1231708
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0271	1	02/02/2019 20:13	WG1231708

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

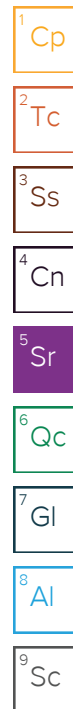
Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000320	0.00108	1	02/02/2019 20:13	WG1231708
Naphthalene	U		0.00338	0.0136	1	02/02/2019 20:13	WG1231708
n-Propylbenzene	U		0.00128	0.00542	1	02/02/2019 20:13	WG1231708
Styrene	U		0.00296	0.0136	1	02/02/2019 20:13	WG1231708
1,1,1,2-Tetrachloroethane	U		0.000542	0.00271	1	02/02/2019 20:13	WG1231708
1,1,2,2-Tetrachloroethane	U		0.000423	0.00271	1	02/02/2019 20:13	WG1231708
1,1,2-Trichlorotrifluoroethane	U		0.000732	0.00271	1	02/02/2019 20:13	WG1231708
Tetrachloroethene	0.0806	<u>J4</u>	0.000759	0.00271	1	02/02/2019 20:13	WG1231708
Toluene	U		0.00136	0.00542	1	02/02/2019 20:13	WG1231708
1,2,3-Trichlorobenzene	U		0.000678	0.00271	1	02/02/2019 20:13	WG1231708
1,2,4-Trichlorobenzene	U		0.00523	0.0136	1	02/02/2019 20:13	WG1231708
1,1,1-Trichloroethane	U		0.000298	0.00271	1	02/02/2019 20:13	WG1231708
1,1,2-Trichloroethane	U		0.000958	0.00271	1	02/02/2019 20:13	WG1231708
Trichloroethene	0.0834		0.000434	0.00108	1	02/02/2019 20:13	WG1231708
Trichlorofluoromethane	U		0.000542	0.00271	1	02/02/2019 20:13	WG1231708
1,2,3-Trichloropropane	U		0.00553	0.0136	1	02/02/2019 20:13	WG1231708
1,2,4-Trimethylbenzene	U		0.00126	0.00542	1	02/02/2019 20:13	WG1231708
1,2,3-Trimethylbenzene	U		0.00125	0.00542	1	02/02/2019 20:13	WG1231708
1,3,5-Trimethylbenzene	U		0.00117	0.00542	1	02/02/2019 20:13	WG1231708
Vinyl acetate	U		0.00382	0.0136	1	02/02/2019 20:13	WG1231708
Vinyl chloride	U		0.000741	0.00271	1	02/02/2019 20:13	WG1231708
Xylenes, Total	U		0.00518	0.00705	1	02/02/2019 20:13	WG1231708
(S) Toluene-d8	112			75.0-131		02/02/2019 20:13	WG1231708
(S) Toluene-d8	83.0			75.0-131		02/03/2019 16:16	WG1231857
(S) Dibromofluoromethane	85.8			65.0-129		02/02/2019 20:13	WG1231708
(S) Dibromofluoromethane	113			65.0-129		02/03/2019 16:16	WG1231857
(S) 4-Bromofluorobenzene	103			67.0-138		02/02/2019 20:13	WG1231708
(S) 4-Bromofluorobenzene	116			67.0-138		02/03/2019 16:16	WG1231857

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	
Acetone	U		1.05	25.0	1	02/01/2019 17:59	WG1231554
Acrylonitrile	U		0.873	5.00	1	02/01/2019 17:59	WG1231554
Benzene	U		0.0896	0.500	1	02/01/2019 17:59	WG1231554
Bromobenzene	U		0.133	0.500	1	02/01/2019 17:59	WG1231554
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 17:59	WG1231554
Bromochloromethane	U		0.145	0.500	1	02/01/2019 17:59	WG1231554
Bromoform	U		0.186	0.500	1	02/01/2019 17:59	WG1231554
Bromomethane	U		0.157	2.50	1	02/01/2019 17:59	WG1231554
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 17:59	WG1231554
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 17:59	WG1231554
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 17:59	WG1231554
Carbon disulfide	U		0.101	0.500	1	02/01/2019 17:59	WG1231554
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 17:59	WG1231554
Chlorobenzene	U		0.140	0.500	1	02/01/2019 17:59	WG1231554
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 17:59	WG1231554
Chloroethane	U		0.141	2.50	1	02/01/2019 17:59	WG1231554
Chloroform	U		0.0860	0.500	1	02/01/2019 17:59	WG1231554
Chloromethane	U		0.153	1.25	1	02/01/2019 17:59	WG1231554
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 17:59	WG1231554
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 17:59	WG1231554
1,2-Dibromo-3-Chloropropane	U	JO	0.325	2.50	1	02/01/2019 17:59	WG1231554
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 17:59	WG1231554
Dibromomethane	U		0.117	0.500	1	02/01/2019 17:59	WG1231554
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 17:59	WG1231554
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 17:59	WG1231554
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 17:59	WG1231554
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 17:59	WG1231554
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 17:59	WG1231554
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 17:59	WG1231554
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 17:59	WG1231554
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/01/2019 17:59	WG1231554
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 17:59	WG1231554
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 17:59	WG1231554
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 17:59	WG1231554
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 17:59	WG1231554
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 17:59	WG1231554
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 17:59	WG1231554
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 17:59	WG1231554
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 17:59	WG1231554
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 17:59	WG1231554
Ethylbenzene	U		0.158	0.500	1	02/01/2019 17:59	WG1231554
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 17:59	WG1231554
2-Hexanone	U		0.757	5.00	1	02/01/2019 17:59	WG1231554
n-Hexane	U		0.305	5.00	1	02/01/2019 17:59	WG1231554
Iodomethane	U		0.377	10.0	1	02/01/2019 17:59	WG1231554
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 17:59	WG1231554
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 17:59	WG1231554
2-Butanone (MEK)	U	JO	1.28	5.00	1	02/01/2019 17:59	WG1231554
Methylene Chloride	U		1.07	2.50	1	02/01/2019 17:59	WG1231554
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 17:59	WG1231554
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 17:59	WG1231554
Naphthalene	U	JO	0.174	2.50	1	02/01/2019 17:59	WG1231554
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 17:59	WG1231554
Styrene	U		0.117	0.500	1	02/01/2019 17:59	WG1231554
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 17:59	WG1231554
1,1,2,2-Tetrachloroethane	U	JO	0.130	0.500	1	02/01/2019 17:59	WG1231554





Collected date/time: 01/28/19 00:00

L1065738

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	02/01/2019 17:59	WG1231554
Tetrachloroethene	U		0.199	0.500	1	02/01/2019 17:59	WG1231554
Toluene	U		0.412	0.500	1	02/01/2019 17:59	WG1231554
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.164	0.500	1	02/01/2019 17:59	WG1231554
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 17:59	WG1231554
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 17:59	WG1231554
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 17:59	WG1231554
Trichloroethene	U		0.153	0.500	1	02/01/2019 17:59	WG1231554
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 17:59	WG1231554
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 17:59	WG1231554
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 17:59	WG1231554
1,2,3-Trimethylbenzene	U	<u>JO J4</u>	0.0739	0.500	1	02/01/2019 17:59	WG1231554
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 17:59	WG1231554
Vinyl acetate	U		0.645	5.00	1	02/01/2019 17:59	WG1231554
Vinyl chloride	U		0.118	0.500	1	02/01/2019 17:59	WG1231554
Xylenes, Total	U		0.316	1.50	1	02/01/2019 17:59	WG1231554
(S) Toluene-d8	106			80.0-120		02/01/2019 17:59	WG1231554
(S) Dibromofluoromethane	100			75.0-120		02/01/2019 17:59	WG1231554
(S) 4-Bromofluorobenzene	82.0			77.0-126		02/01/2019 17:59	WG1231554

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc



Collected date/time: 01/29/19 14:52

L1065738

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.4		1	02/01/2019 11:16	WG1231193

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0378		0.0162	0.0296	1	02/03/2019 12:08	WG1231920
Acrylonitrile	U		0.00225	0.0148	1	02/02/2019 18:02	WG1231732
Benzene	0.000633	J	0.000474	0.00119	1	02/02/2019 18:02	WG1231732
Bromobenzene	U		0.00124	0.0148	1	02/02/2019 18:02	WG1231732
Bromodichloromethane	U		0.000934	0.00296	1	02/02/2019 18:02	WG1231732
Bromochloromethane	U		0.00134	0.00593	1	02/02/2019 18:02	WG1231732
Bromoform	U		0.00709	0.0296	1	02/02/2019 18:02	WG1231732
Bromomethane	U		0.00439	0.0148	1	02/02/2019 18:02	WG1231732
n-Butylbenzene	U		0.00455	0.0148	1	02/02/2019 18:02	WG1231732
sec-Butylbenzene	U		0.00300	0.0148	1	02/02/2019 18:02	WG1231732
tert-Butylbenzene	U		0.00184	0.00593	1	02/02/2019 18:02	WG1231732
Carbon disulfide	U		0.00481	0.0148	1	02/02/2019 18:02	WG1231732
Carbon tetrachloride	U		0.00128	0.00593	1	02/02/2019 18:02	WG1231732
Chlorobenzene	U		0.000679	0.00296	1	02/02/2019 18:02	WG1231732
Chlorodibromomethane	U		0.000533	0.00296	1	02/02/2019 18:02	WG1231732
Chloroethane	U		0.00128	0.00593	1	02/02/2019 18:02	WG1231732
Chloroform	U		0.000492	0.00296	1	02/02/2019 18:02	WG1231732
Chloromethane	U		0.00165	0.0148	1	02/02/2019 18:02	WG1231732
2-Chlorotoluene	U		0.00109	0.00296	1	02/02/2019 18:02	WG1231732
4-Chlorotoluene	U		0.00134	0.00593	1	02/02/2019 18:02	WG1231732
1,2-Dibromo-3-Chloropropane	U		0.00605	0.0296	1	02/02/2019 18:02	WG1231732
1,2-Dibromoethane	U		0.000622	0.00296	1	02/02/2019 18:02	WG1231732
Dibromomethane	U		0.00119	0.00593	1	02/02/2019 18:02	WG1231732
1,2-Dichlorobenzene	U		0.00172	0.00593	1	02/02/2019 18:02	WG1231732
1,3-Dichlorobenzene	U		0.00202	0.00593	1	02/02/2019 18:02	WG1231732
1,4-Dichlorobenzene	U		0.00234	0.00593	1	02/02/2019 18:02	WG1231732
Dichlorodifluoromethane	U		0.000970	0.00296	1	02/02/2019 18:02	WG1231732
1,1-Dichloroethane	U		0.000682	0.00296	1	02/02/2019 18:02	WG1231732
1,2-Dichloroethane	U		0.000563	0.00296	1	02/02/2019 18:02	WG1231732
1,1-Dichloroethene	0.00898		0.000593	0.00296	1	02/02/2019 18:02	WG1231732
cis-1,2-Dichloroethene	0.0255		0.000818	0.00296	1	02/02/2019 18:02	WG1231732
trans-1,2-Dichloroethene	0.00458	J	0.00170	0.00593	1	02/02/2019 18:02	WG1231732
1,2-Dichloropropane	U		0.00151	0.00593	1	02/02/2019 18:02	WG1231732
1,1-Dichloropropene	U		0.000830	0.00296	1	02/02/2019 18:02	WG1231732
1,3-Dichloropropane	U		0.00207	0.00593	1	02/02/2019 18:02	WG1231732
cis-1,3-Dichloropropene	U		0.000804	0.00296	1	02/02/2019 18:02	WG1231732
trans-1,3-Dichloropropene	U		0.00181	0.00593	1	02/02/2019 18:02	WG1231732
trans-1,4-Dichloro-2-butene	U		0.00166	0.00593	1	02/02/2019 18:02	WG1231732
2,2-Dichloropropane	U		0.000940	0.00296	1	02/02/2019 18:02	WG1231732
Di-isopropyl ether	U		0.000415	0.00119	1	02/02/2019 18:02	WG1231732
Ethylbenzene	U		0.000628	0.00296	1	02/02/2019 18:02	WG1231732
Hexachloro-1,3-butadiene	U	JO	0.0151	0.0296	1	02/02/2019 18:02	WG1231732
2-Hexanone	U		0.0119	0.0296	1	02/02/2019 18:02	WG1231732
n-Hexane	U		0.00126	0.00593	1	02/02/2019 18:02	WG1231732
Iodomethane	U		0.00717	0.0148	1	02/02/2019 18:02	WG1231732
Isopropylbenzene	U		0.00102	0.00296	1	02/02/2019 18:02	WG1231732
p-Isopropyltoluene	U		0.00276	0.00593	1	02/02/2019 18:02	WG1231732
2-Butanone (MEK)	0.0289	J	0.0148	0.0296	1	02/02/2019 18:02	WG1231732
Methylene Chloride	U		0.00787	0.0296	1	02/02/2019 18:02	WG1231732
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0296	1	02/02/2019 18:02	WG1231732

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/29/19 14:52

L1065738

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000350	0.00119	1	02/02/2019 18:02	WG1231732
Naphthalene	U	<u>JO</u>	0.00370	0.0148	1	02/02/2019 18:02	WG1231732
n-Propylbenzene	U		0.00140	0.00593	1	02/02/2019 18:02	WG1231732
Styrene	U		0.00324	0.0148	1	02/02/2019 18:02	WG1231732
1,1,1,2-Tetrachloroethane	U		0.000593	0.00296	1	02/02/2019 18:02	WG1231732
1,1,2,2-Tetrachloroethane	U		0.000462	0.00296	1	02/02/2019 18:02	WG1231732
1,1,2-Trichlorotrifluoroethane	U		0.000800	0.00296	1	02/02/2019 18:02	WG1231732
Tetrachloroethene	2.05		0.000830	0.00296	1	02/02/2019 18:02	WG1231732
Toluene	0.00264	<u>J</u>	0.00148	0.00593	1	02/02/2019 18:02	WG1231732
1,2,3-Trichlorobenzene	U		0.000741	0.00296	1	02/03/2019 12:08	WG1231920
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.00571	0.0148	1	02/02/2019 18:02	WG1231732
1,1,1-Trichloroethane	U		0.000326	0.00296	1	02/02/2019 18:02	WG1231732
1,1,2-Trichloroethane	U		0.00105	0.00296	1	02/02/2019 18:02	WG1231732
Trichloroethene	0.346	<u>J4</u>	0.000474	0.00119	1	02/03/2019 12:08	WG1231920
Trichlorofluoromethane	U		0.000593	0.00296	1	02/02/2019 18:02	WG1231732
1,2,3-Trichloropropane	U		0.00605	0.0148	1	02/02/2019 18:02	WG1231732
1,2,4-Trimethylbenzene	U		0.00138	0.00593	1	02/02/2019 18:02	WG1231732
1,2,3-Trimethylbenzene	U		0.00136	0.00593	1	02/02/2019 18:02	WG1231732
1,3,5-Trimethylbenzene	U		0.00128	0.00593	1	02/02/2019 18:02	WG1231732
Vinyl acetate	U		0.00417	0.0148	1	02/02/2019 18:02	WG1231732
Vinyl chloride	U		0.000810	0.00296	1	02/02/2019 18:02	WG1231732
Xylenes, Total	U		0.00567	0.00771	1	02/02/2019 18:02	WG1231732
(S) Toluene-d8	104			75.0-131		02/02/2019 18:02	WG1231732
(S) Toluene-d8	96.7			75.0-131		02/03/2019 12:08	WG1231920
(S) Dibromofluoromethane	120			65.0-129		02/03/2019 12:08	WG1231920
(S) 4-Bromofluorobenzene	104			67.0-138		02/02/2019 18:02	WG1231732
(S) 4-Bromofluorobenzene	97.6			67.0-138		02/03/2019 12:08	WG1231920
(S) 1,2-Dichloroethane-d4	89.6			70.0-130		02/02/2019 18:02	WG1231732

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/29/19 14:55

L1065738

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.1		1	02/01/2019 11:16	WG1231193

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0157	0.0287	1	02/03/2019 12:27	WG1231920
Acrylonitrile	U		0.00218	0.0144	1	02/02/2019 18:22	WG1231732
Benzene	0.000590	J	0.000459	0.00115	1	02/02/2019 18:22	WG1231732
Bromobenzene	U		0.00121	0.0144	1	02/02/2019 18:22	WG1231732
Bromodichloromethane	U		0.000905	0.00287	1	02/02/2019 18:22	WG1231732
Bromochloromethane	U		0.00130	0.00574	1	02/02/2019 18:22	WG1231732
Bromoform	U		0.00687	0.0287	1	02/02/2019 18:22	WG1231732
Bromomethane	U		0.00425	0.0144	1	02/02/2019 18:22	WG1231732
n-Butylbenzene	U		0.00441	0.0144	1	02/02/2019 18:22	WG1231732
sec-Butylbenzene	U		0.00291	0.0144	1	02/02/2019 18:22	WG1231732
tert-Butylbenzene	U		0.00178	0.00574	1	02/02/2019 18:22	WG1231732
Carbon disulfide	U		0.00466	0.0144	1	02/02/2019 18:22	WG1231732
Carbon tetrachloride	U		0.00124	0.00574	1	02/02/2019 18:22	WG1231732
Chlorobenzene	U		0.000658	0.00287	1	02/02/2019 18:22	WG1231732
Chlorodibromomethane	U		0.000517	0.00287	1	02/02/2019 18:22	WG1231732
Chloroethane	U		0.00124	0.00574	1	02/02/2019 18:22	WG1231732
Chloroform	U		0.000477	0.00287	1	02/02/2019 18:22	WG1231732
Chloromethane	U		0.00160	0.0144	1	02/02/2019 18:22	WG1231732
2-Chlorotoluene	U		0.00106	0.00287	1	02/02/2019 18:22	WG1231732
4-Chlorotoluene	U		0.00130	0.00574	1	02/02/2019 18:22	WG1231732
1,2-Dibromo-3-Chloropropane	U		0.00586	0.0287	1	02/02/2019 18:22	WG1231732
1,2-Dibromoethane	U		0.000603	0.00287	1	02/02/2019 18:22	WG1231732
Dibromomethane	U		0.00115	0.00574	1	02/02/2019 18:22	WG1231732
1,2-Dichlorobenzene	U		0.00167	0.00574	1	02/02/2019 18:22	WG1231732
1,3-Dichlorobenzene	U		0.00195	0.00574	1	02/02/2019 18:22	WG1231732
1,4-Dichlorobenzene	U		0.00226	0.00574	1	02/02/2019 18:22	WG1231732
Dichlorodifluoromethane	U		0.000939	0.00287	1	02/02/2019 18:22	WG1231732
1,1-Dichloroethane	U		0.000660	0.00287	1	02/02/2019 18:22	WG1231732
1,2-Dichloroethane	U		0.000546	0.00287	1	02/02/2019 18:22	WG1231732
1,1-Dichloroethene	U		0.000574	0.00287	1	02/02/2019 18:22	WG1231732
cis-1,2-Dichloroethene	0.00269	J	0.000792	0.00287	1	02/02/2019 18:22	WG1231732
trans-1,2-Dichloroethene	U		0.00164	0.00574	1	02/02/2019 18:22	WG1231732
1,2-Dichloropropane	U		0.00146	0.00574	1	02/02/2019 18:22	WG1231732
1,1-Dichloropropene	U		0.000804	0.00287	1	02/02/2019 18:22	WG1231732
1,3-Dichloropropane	U		0.00201	0.00574	1	02/02/2019 18:22	WG1231732
cis-1,3-Dichloropropene	U		0.000779	0.00287	1	02/02/2019 18:22	WG1231732
trans-1,3-Dichloropropene	U		0.00176	0.00574	1	02/02/2019 18:22	WG1231732
trans-1,4-Dichloro-2-butene	U		0.00161	0.00574	1	02/02/2019 18:22	WG1231732
2,2-Dichloropropane	U		0.000911	0.00287	1	02/02/2019 18:22	WG1231732
Di-isopropyl ether	U		0.000402	0.00115	1	02/02/2019 18:22	WG1231732
Ethylbenzene	U		0.000609	0.00287	1	02/02/2019 18:22	WG1231732
Hexachloro-1,3-butadiene	U	JO	0.0146	0.0287	1	02/02/2019 18:22	WG1231732
2-Hexanone	U		0.0115	0.0287	1	02/02/2019 18:22	WG1231732
n-Hexane	U		0.00122	0.00574	1	02/02/2019 18:22	WG1231732
Iodomethane	U		0.00695	0.0144	1	02/02/2019 18:22	WG1231732
Isopropylbenzene	U		0.000991	0.00287	1	02/02/2019 18:22	WG1231732
p-Isopropyltoluene	U		0.00268	0.00574	1	02/02/2019 18:22	WG1231732
2-Butanone (MEK)	0.0199	J	0.0144	0.0287	1	02/02/2019 18:22	WG1231732
Methylene Chloride	U		0.00763	0.0287	1	02/02/2019 18:22	WG1231732
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0287	1	02/02/2019 18:22	WG1231732

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/29/19 14:55

L1065738

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000339	0.00115	1	02/02/2019 18:22	WG1231732
Naphthalene	U	<u>JO</u>	0.00358	0.0144	1	02/02/2019 18:22	WG1231732
n-Propylbenzene	U		0.00136	0.00574	1	02/02/2019 18:22	WG1231732
Styrene	U		0.00314	0.0144	1	02/02/2019 18:22	WG1231732
1,1,1,2-Tetrachloroethane	U		0.000574	0.00287	1	02/02/2019 18:22	WG1231732
1,1,2,2-Tetrachloroethane	U		0.000448	0.00287	1	02/02/2019 18:22	WG1231732
1,1,2-Trichlorotrifluoroethane	U		0.000775	0.00287	1	02/02/2019 18:22	WG1231732
Tetrachloroethene	0.0109		0.000804	0.00287	1	02/02/2019 18:22	WG1231732
Toluene	U		0.00144	0.00574	1	02/02/2019 18:22	WG1231732
1,2,3-Trichlorobenzene	U		0.000718	0.00287	1	02/03/2019 12:27	WG1231920
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.00554	0.0144	1	02/02/2019 18:22	WG1231732
1,1,1-Trichloroethane	U		0.000316	0.00287	1	02/02/2019 18:22	WG1231732
1,1,2-Trichloroethane	U		0.00101	0.00287	1	02/02/2019 18:22	WG1231732
Trichloroethene	0.00246	<u>J4</u>	0.000459	0.00115	1	02/03/2019 12:27	WG1231920
Trichlorofluoromethane	U		0.000574	0.00287	1	02/02/2019 18:22	WG1231732
1,2,3-Trichloropropane	U		0.00586	0.0144	1	02/02/2019 18:22	WG1231732
1,2,4-Trimethylbenzene	U		0.00133	0.00574	1	02/02/2019 18:22	WG1231732
1,2,3-Trimethylbenzene	U		0.00132	0.00574	1	02/02/2019 18:22	WG1231732
1,3,5-Trimethylbenzene	U		0.00124	0.00574	1	02/02/2019 18:22	WG1231732
Vinyl acetate	U		0.00404	0.0144	1	02/02/2019 18:22	WG1231732
Vinyl chloride	U		0.000784	0.00287	1	02/02/2019 18:22	WG1231732
Xylenes, Total	U		0.00549	0.00746	1	02/02/2019 18:22	WG1231732
(S) Toluene-d8	105			75.0-131		02/02/2019 18:22	WG1231732
(S) Toluene-d8	93.2			75.0-131		02/03/2019 12:27	WG1231920
(S) Dibromofluoromethane	113			65.0-129		02/03/2019 12:27	WG1231920
(S) 4-Bromofluorobenzene	103			67.0-138		02/02/2019 18:22	WG1231732
(S) 4-Bromofluorobenzene	121			67.0-138		02/03/2019 12:27	WG1231920
(S) 1,2-Dichloroethane-d4	91.0			70.0-130		02/02/2019 18:22	WG1231732

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	95.2		1	02/01/2019 11:16	WG1231193

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0157	<u>J</u>	0.0144	0.0262	1	02/03/2019 12:46	WG1231920
Acrylonitrile	U		0.00199	0.0131	1	02/02/2019 18:42	WG1231732
Benzene	U		0.000420	0.00105	1	02/02/2019 18:42	WG1231732
Bromobenzene	U		0.00110	0.0131	1	02/02/2019 18:42	WG1231732
Bromodichloromethane	U		0.000827	0.00262	1	02/02/2019 18:42	WG1231732
Bromochloromethane	U		0.00119	0.00525	1	02/02/2019 18:42	WG1231732
Bromoform	U		0.00628	0.0262	1	02/02/2019 18:42	WG1231732
Bromomethane	U		0.00388	0.0131	1	02/02/2019 18:42	WG1231732
n-Butylbenzene	U		0.00403	0.0131	1	02/02/2019 18:42	WG1231732
sec-Butylbenzene	U		0.00266	0.0131	1	02/02/2019 18:42	WG1231732
tert-Butylbenzene	U		0.00163	0.00525	1	02/02/2019 18:42	WG1231732
Carbon disulfide	U		0.00426	0.0131	1	02/02/2019 18:42	WG1231732
Carbon tetrachloride	U		0.00113	0.00525	1	02/02/2019 18:42	WG1231732
Chlorobenzene	U		0.000602	0.00262	1	02/02/2019 18:42	WG1231732
Chlorodibromomethane	U		0.000472	0.00262	1	02/02/2019 18:42	WG1231732
Chloroethane	U		0.00113	0.00525	1	02/02/2019 18:42	WG1231732
Chloroform	U		0.000436	0.00262	1	02/02/2019 18:42	WG1231732
Chloromethane	U		0.00146	0.0131	1	02/02/2019 18:42	WG1231732
2-Chlorotoluene	U		0.000966	0.00262	1	02/02/2019 18:42	WG1231732
4-Chlorotoluene	U		0.00119	0.00525	1	02/02/2019 18:42	WG1231732
1,2-Dibromo-3-Chloropropane	U		0.00535	0.0262	1	02/02/2019 18:42	WG1231732
1,2-Dibromoethane	U		0.000551	0.00262	1	02/02/2019 18:42	WG1231732
Dibromomethane	U		0.00105	0.00525	1	02/02/2019 18:42	WG1231732
1,2-Dichlorobenzene	U		0.00152	0.00525	1	02/02/2019 18:42	WG1231732
1,3-Dichlorobenzene	U		0.00178	0.00525	1	02/02/2019 18:42	WG1231732
1,4-Dichlorobenzene	U		0.00207	0.00525	1	02/02/2019 18:42	WG1231732
Dichlorodifluoromethane	U		0.000859	0.00262	1	02/02/2019 18:42	WG1231732
1,1-Dichloroethane	U		0.000604	0.00262	1	02/02/2019 18:42	WG1231732
1,2-Dichloroethane	U		0.000499	0.00262	1	02/02/2019 18:42	WG1231732
1,1-Dichloroethene	U		0.000525	0.00262	1	02/02/2019 18:42	WG1231732
cis-1,2-Dichloroethene	0.0249		0.000724	0.00262	1	02/02/2019 18:42	WG1231732
trans-1,2-Dichloroethene	U		0.00150	0.00525	1	02/02/2019 18:42	WG1231732
1,2-Dichloropropane	U		0.00133	0.00525	1	02/02/2019 18:42	WG1231732
1,1-Dichloropropene	U		0.000735	0.00262	1	02/02/2019 18:42	WG1231732
1,3-Dichloropropane	U		0.00184	0.00525	1	02/02/2019 18:42	WG1231732
cis-1,3-Dichloropropene	U		0.000712	0.00262	1	02/02/2019 18:42	WG1231732
trans-1,3-Dichloropropene	U		0.00161	0.00525	1	02/02/2019 18:42	WG1231732
trans-1,4-Dichloro-2-butene	U		0.00147	0.00525	1	02/02/2019 18:42	WG1231732
2,2-Dichloropropane	U		0.000833	0.00262	1	02/02/2019 18:42	WG1231732
Di-isopropyl ether	U		0.000367	0.00105	1	02/02/2019 18:42	WG1231732
Ethylbenzene	U		0.000556	0.00262	1	02/02/2019 18:42	WG1231732
Hexachloro-1,3-butadiene	U	<u>JO</u>	0.0133	0.0262	1	02/02/2019 18:42	WG1231732
2-Hexanone	U		0.0105	0.0262	1	02/02/2019 18:42	WG1231732
n-Hexane	U		0.00111	0.00525	1	02/02/2019 18:42	WG1231732
Iodomethane	U		0.00635	0.0131	1	02/02/2019 18:42	WG1231732
Isopropylbenzene	U		0.000906	0.00262	1	02/02/2019 18:42	WG1231732
p-Isopropyltoluene	U		0.00245	0.00525	1	02/02/2019 18:42	WG1231732
2-Butanone (MEK)	0.0183	<u>J</u>	0.0131	0.0262	1	02/02/2019 18:42	WG1231732
Methylene Chloride	U		0.00697	0.0262	1	02/02/2019 18:42	WG1231732
4-Methyl-2-pentanone (MIBK)	U		0.0105	0.0262	1	02/02/2019 18:42	WG1231732

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/29/19 15:00

L1065738

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000310	0.00105	1	02/02/2019 18:42	WG1231732
Naphthalene	U	<u>JO</u>	0.00328	0.0131	1	02/02/2019 18:42	WG1231732
n-Propylbenzene	U		0.00124	0.00525	1	02/02/2019 18:42	WG1231732
Styrene	U		0.00287	0.0131	1	02/02/2019 18:42	WG1231732
1,1,1,2-Tetrachloroethane	U		0.000525	0.00262	1	02/02/2019 18:42	WG1231732
1,1,2,2-Tetrachloroethane	U		0.000409	0.00262	1	02/02/2019 18:42	WG1231732
1,1,2-Trichlorotrifluoroethane	U		0.000709	0.00262	1	02/02/2019 18:42	WG1231732
Tetrachloroethene	0.00124	<u>J</u>	0.000735	0.00262	1	02/02/2019 18:42	WG1231732
Toluene	U		0.00131	0.00525	1	02/02/2019 18:42	WG1231732
1,2,3-Trichlorobenzene	U		0.000656	0.00262	1	02/03/2019 12:46	WG1231920
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.00506	0.0131	1	02/02/2019 18:42	WG1231732
1,1,1-Trichloroethane	U		0.000289	0.00262	1	02/02/2019 18:42	WG1231732
1,1,2-Trichloroethane	U		0.000927	0.00262	1	02/02/2019 18:42	WG1231732
Trichloroethene	0.00256	<u>J4</u>	0.000420	0.00105	1	02/03/2019 12:46	WG1231920
Trichlorofluoromethane	U		0.000525	0.00262	1	02/02/2019 18:42	WG1231732
1,2,3-Trichloropropane	U		0.00535	0.0131	1	02/02/2019 18:42	WG1231732
1,2,4-Trimethylbenzene	U		0.00122	0.00525	1	02/02/2019 18:42	WG1231732
1,2,3-Trimethylbenzene	U		0.00121	0.00525	1	02/02/2019 18:42	WG1231732
1,3,5-Trimethylbenzene	U		0.00113	0.00525	1	02/02/2019 18:42	WG1231732
Vinyl acetate	U		0.00370	0.0131	1	02/02/2019 18:42	WG1231732
Vinyl chloride	U		0.000717	0.00262	1	02/02/2019 18:42	WG1231732
Xylenes, Total	U		0.00502	0.00682	1	02/02/2019 18:42	WG1231732
(S) Toluene-d8	104			75.0-131		02/02/2019 18:42	WG1231732
(S) Toluene-d8	99.6			75.0-131		02/03/2019 12:46	WG1231920
(S) Dibromofluoromethane	108			65.0-129		02/03/2019 12:46	WG1231920
(S) 4-Bromofluorobenzene	103			67.0-138		02/02/2019 18:42	WG1231732
(S) 4-Bromofluorobenzene	113			67.0-138		02/03/2019 12:46	WG1231920
(S) 1,2-Dichloroethane-d4	95.5			70.0-130		02/02/2019 18:42	WG1231732

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	90.3		1	02/01/2019 11:16	WG1231193

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0280		0.0152	0.0277	1	02/03/2019 13:05	WG1231920
Acrylonitrile	U		0.00211	0.0138	1	02/02/2019 19:02	WG1231732
Benzene	0.000587	J	0.000443	0.00111	1	02/02/2019 19:02	WG1231732
Bromobenzene	U		0.00116	0.0138	1	02/02/2019 19:02	WG1231732
Bromodichloromethane	U		0.000873	0.00277	1	02/02/2019 19:02	WG1231732
Bromochloromethane	U		0.00125	0.00554	1	02/02/2019 19:02	WG1231732
Bromoform	U		0.00663	0.0277	1	02/02/2019 19:02	WG1231732
Bromomethane	U		0.00410	0.0138	1	02/02/2019 19:02	WG1231732
n-Butylbenzene	U		0.00425	0.0138	1	02/02/2019 19:02	WG1231732
sec-Butylbenzene	U		0.00280	0.0138	1	02/02/2019 19:02	WG1231732
tert-Butylbenzene	U		0.00172	0.00554	1	02/02/2019 19:02	WG1231732
Carbon disulfide	U		0.00450	0.0138	1	02/02/2019 19:02	WG1231732
Carbon tetrachloride	U		0.00120	0.00554	1	02/02/2019 19:02	WG1231732
Chlorobenzene	U		0.000635	0.00277	1	02/02/2019 19:02	WG1231732
Chlorodibromomethane	U		0.000499	0.00277	1	02/02/2019 19:02	WG1231732
Chloroethane	U		0.00120	0.00554	1	02/02/2019 19:02	WG1231732
Chloroform	U		0.000460	0.00277	1	02/02/2019 19:02	WG1231732
Chloromethane	U		0.00154	0.0138	1	02/02/2019 19:02	WG1231732
2-Chlorotoluene	U		0.00102	0.00277	1	02/02/2019 19:02	WG1231732
4-Chlorotoluene	U		0.00125	0.00554	1	02/02/2019 19:02	WG1231732
1,2-Dibromo-3-Chloropropane	U		0.00565	0.0277	1	02/02/2019 19:02	WG1231732
1,2-Dibromoethane	U		0.000582	0.00277	1	02/02/2019 19:02	WG1231732
Dibromomethane	U		0.00111	0.00554	1	02/02/2019 19:02	WG1231732
1,2-Dichlorobenzene	U		0.00161	0.00554	1	02/02/2019 19:02	WG1231732
1,3-Dichlorobenzene	U		0.00188	0.00554	1	02/02/2019 19:02	WG1231732
1,4-Dichlorobenzene	U		0.00218	0.00554	1	02/02/2019 19:02	WG1231732
Dichlorodifluoromethane	U		0.000906	0.00277	1	02/02/2019 19:02	WG1231732
1,1-Dichloroethane	U		0.000637	0.00277	1	02/02/2019 19:02	WG1231732
1,2-Dichloroethane	U		0.000526	0.00277	1	02/02/2019 19:02	WG1231732
1,1-Dichloroethene	U		0.000554	0.00277	1	02/02/2019 19:02	WG1231732
cis-1,2-Dichloroethene	0.00194	J	0.000764	0.00277	1	02/02/2019 19:02	WG1231732
trans-1,2-Dichloroethene	U		0.00158	0.00554	1	02/02/2019 19:02	WG1231732
1,2-Dichloropropane	U		0.00141	0.00554	1	02/02/2019 19:02	WG1231732
1,1-Dichloropropene	U		0.000776	0.00277	1	02/02/2019 19:02	WG1231732
1,3-Dichloropropane	U		0.00194	0.00554	1	02/02/2019 19:02	WG1231732
cis-1,3-Dichloropropene	U		0.000751	0.00277	1	02/02/2019 19:02	WG1231732
trans-1,3-Dichloropropene	U		0.00170	0.00554	1	02/02/2019 19:02	WG1231732
trans-1,4-Dichloro-2-butene	U		0.00155	0.00554	1	02/02/2019 19:02	WG1231732
2,2-Dichloropropane	U		0.000879	0.00277	1	02/02/2019 19:02	WG1231732
Di-isopropyl ether	U		0.000388	0.00111	1	02/02/2019 19:02	WG1231732
Ethylbenzene	U		0.000587	0.00277	1	02/02/2019 19:02	WG1231732
Hexachloro-1,3-butadiene	U	JO	0.0141	0.0277	1	02/02/2019 19:02	WG1231732
2-Hexanone	U		0.0111	0.0277	1	02/02/2019 19:02	WG1231732
n-Hexane	U		0.00117	0.00554	1	02/02/2019 19:02	WG1231732
Iodomethane	U		0.00670	0.0138	1	02/02/2019 19:02	WG1231732
Isopropylbenzene	U		0.000956	0.00277	1	02/02/2019 19:02	WG1231732
p-Isopropyltoluene	U		0.00258	0.00554	1	02/02/2019 19:02	WG1231732
2-Butanone (MEK)	0.0220	J	0.0138	0.0277	1	02/02/2019 19:02	WG1231732
Methylene Chloride	U		0.00736	0.0277	1	02/02/2019 19:02	WG1231732
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0277	1	02/02/2019 19:02	WG1231732

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/29/19 15:02

L1065738

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000327	0.00111	1	02/02/2019 19:02	WG1231732
Naphthalene	U	<u>JO</u>	0.00346	0.0138	1	02/02/2019 19:02	WG1231732
n-Propylbenzene	U		0.00131	0.00554	1	02/02/2019 19:02	WG1231732
Styrene	U		0.00302	0.0138	1	02/02/2019 19:02	WG1231732
1,1,1,2-Tetrachloroethane	U		0.000554	0.00277	1	02/02/2019 19:02	WG1231732
1,1,2,2-Tetrachloroethane	U		0.000432	0.00277	1	02/02/2019 19:02	WG1231732
1,1,2-Trichlorotrifluoroethane	U		0.000748	0.00277	1	02/02/2019 19:02	WG1231732
Tetrachloroethene	0.00134	<u>J</u>	0.000776	0.00277	1	02/02/2019 19:02	WG1231732
Toluene	U		0.00138	0.00554	1	02/02/2019 19:02	WG1231732
1,2,3-Trichlorobenzene	U		0.000692	0.00277	1	02/03/2019 13:05	WG1231920
1,2,4-Trichlorobenzene	U	<u>JO</u>	0.00534	0.0138	1	02/02/2019 19:02	WG1231732
1,1,1-Trichloroethane	U		0.000305	0.00277	1	02/02/2019 19:02	WG1231732
1,1,2-Trichloroethane	U		0.000978	0.00277	1	02/02/2019 19:02	WG1231732
Trichloroethene	0.000687	<u>J J4</u>	0.000443	0.00111	1	02/03/2019 13:05	WG1231920
Trichlorofluoromethane	U		0.000554	0.00277	1	02/02/2019 19:02	WG1231732
1,2,3-Trichloropropane	U		0.00565	0.0138	1	02/02/2019 19:02	WG1231732
1,2,4-Trimethylbenzene	U		0.00129	0.00554	1	02/02/2019 19:02	WG1231732
1,2,3-Trimethylbenzene	U		0.00127	0.00554	1	02/02/2019 19:02	WG1231732
1,3,5-Trimethylbenzene	U		0.00120	0.00554	1	02/02/2019 19:02	WG1231732
Vinyl acetate	U		0.00390	0.0138	1	02/02/2019 19:02	WG1231732
Vinyl chloride	U		0.000757	0.00277	1	02/02/2019 19:02	WG1231732
Xylenes, Total	U		0.00530	0.00720	1	02/02/2019 19:02	WG1231732
(S) Toluene-d8	104			75.0-131		02/02/2019 19:02	WG1231732
(S) Toluene-d8	99.3			75.0-131		02/03/2019 13:05	WG1231920
(S) Dibromofluoromethane	116			65.0-129		02/03/2019 13:05	WG1231920
(S) 4-Bromofluorobenzene	102			67.0-138		02/02/2019 19:02	WG1231732
(S) 4-Bromofluorobenzene	116			67.0-138		02/03/2019 13:05	WG1231920
(S) 1,2-Dichloroethane-d4	94.5			70.0-130		02/02/2019 19:02	WG1231732

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Method Blank (MB)

(MB) R3380919-1 02/01/19 13:27

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1065738-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1065738-01 02/01/19 13:27 • (DUP) R3380919-3 02/01/19 13:27

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	92.4	92.7	1	0.328		10

Laboratory Control Sample (LCS)

(LCS) R3380919-2 02/01/19 13:27

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	



Method Blank (MB)

(MB) R3380916-1 02/01/19 13:11

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1065738-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1065738-12 02/01/19 13:11 • (DUP) R3380916-3 02/01/19 13:11

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	89.0	89.2	1	0.231		10

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R3380916-2 02/01/19 13:11

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

⁹Sc

Method Blank (MB)

(MB) R3380908-1 02/01/19 11:16

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

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

L1065738-25 Original Sample (OS) • Duplicate (DUP)

(OS) L1065738-25 02/01/19 11:16 • (DUP) R3380908-3 02/01/19 11:16

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	90.3	92.0	1	1.94		10

Laboratory Control Sample (LCS)

(LCS) R3380908-2 02/01/19 11:16

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	



Method Blank (MB)

(MB) R3380799-3 02/01/19 16:24

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	0.160	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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3380799-3 02/01/19 16:24

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	0.218	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	97.0			75.0-120
(S) 4-Bromofluorobenzene	85.0			77.0-126

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



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

(LCS) R3380799-1 02/01/19 15:24 • (LCSD) R3380799-2 02/01/19 15:44

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	125	106	108	84.8	86.6	19.0-160			2.11	27
Acrylonitrile	125	106	109	85.1	87.3	55.0-149			2.57	20
Benzene	25.0	22.6	22.3	90.3	89.2	70.0-123			1.21	20
Bromobenzene	25.0	20.7	21.0	82.6	84.2	73.0-121			1.86	20
Bromodichloromethane	25.0	25.1	24.9	101	99.5	75.0-120			1.04	20
Bromochloromethane	25.0	24.4	24.1	97.6	96.3	76.0-122			1.37	20
Bromoform	25.0	21.2	21.6	84.8	86.6	68.0-132			2.09	20
Bromomethane	25.0	27.9	27.8	111	111	10.0-160			0.0744	25
n-Butylbenzene	25.0	24.9	25.4	99.6	101	73.0-125			1.83	20
sec-Butylbenzene	25.0	25.6	25.9	102	104	75.0-125			1.25	20
tert-Butylbenzene	25.0	26.2	26.6	105	107	76.0-124			1.63	20
Carbon disulfide	25.0	20.9	21.6	83.5	86.6	61.0-128			3.59	20
Carbon tetrachloride	25.0	21.9	22.0	87.6	87.9	68.0-126			0.277	20
Chlorobenzene	25.0	26.5	26.5	106	106	80.0-121			0.0401	20
Chlorodibromomethane	25.0	24.7	24.9	98.8	99.6	77.0-125			0.864	20
Chloroethane	25.0	25.2	23.7	101	94.7	47.0-150			6.31	20
Chloroform	25.0	22.3	22.8	89.3	91.2	73.0-120			2.13	20
Chloromethane	25.0	30.7	31.8	123	127	41.0-142			3.49	20
2-Chlorotoluene	25.0	23.4	24.2	93.5	96.6	76.0-123			3.31	20
4-Chlorotoluene	25.0	24.7	24.9	98.8	99.5	75.0-122			0.715	20
1,2-Dibromo-3-Chloropropane	25.0	18.4	19.5	73.7	77.9	58.0-134			5.52	20
1,2-Dibromoethane	25.0	24.4	24.6	97.6	98.6	80.0-122			0.969	20
Dibromomethane	25.0	24.4	24.4	97.4	97.8	80.0-120			0.329	20
1,2-Dichlorobenzene	25.0	26.0	26.8	104	107	79.0-121			3.31	20
1,3-Dichlorobenzene	25.0	26.3	26.1	105	105	79.0-120			0.580	20
1,4-Dichlorobenzene	25.0	23.2	24.3	92.7	97.3	79.0-120			4.90	20
Dichlorodifluoromethane	25.0	33.1	33.6	132	134	51.0-149			1.39	20
1,1-Dichloroethane	25.0	23.9	24.3	95.6	97.1	70.0-126			1.59	20
1,2-Dichloroethane	25.0	23.7	23.3	94.6	93.1	70.0-128			1.58	20
1,1-Dichloroethene	25.0	23.5	22.8	93.9	91.2	71.0-124			2.98	20
cis-1,2-Dichloroethene	25.0	23.6	24.0	94.4	96.0	73.0-120			1.64	20
trans-1,2-Dichloroethene	25.0	23.1	23.1	92.4	92.5	73.0-120			0.0251	20
1,2-Dichloropropane	25.0	26.2	25.1	105	100	77.0-125			4.10	20
1,1-Dichloropropene	25.0	22.3	22.4	89.2	89.7	74.0-126			0.516	20
1,3-Dichloropropane	25.0	25.5	25.2	102	101	80.0-120			1.43	20
cis-1,3-Dichloropropene	25.0	26.0	25.6	104	102	80.0-123			1.63	20
trans-1,3-Dichloropropene	25.0	27.4	26.7	109	107	78.0-124			2.29	20
trans-1,4-Dichloro-2-butene	25.0	20.6	20.5	82.5	82.1	33.0-144			0.424	20
2,2-Dichloropropane	25.0	29.1	29.9	117	120	58.0-130			2.58	20
Di-isopropyl ether	25.0	25.0	25.1	100	100	58.0-138			0.393	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



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

(LCS) R3380799-1 02/01/19 15:24 • (LCSD) R3380799-2 02/01/19 15:44

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Ethylbenzene	25.0	24.7	24.9	98.9	99.4	79.0-123			0.538	20
Hexachloro-1,3-butadiene	25.0	24.3	24.7	97.3	98.6	54.0-138			1.28	20
2-Hexanone	125	111	111	88.9	88.9	67.0-149			0.00333	20
n-Hexane	25.0	23.3	23.6	93.2	94.2	57.0-133			1.04	20
Iodomethane	125	116	118	92.9	94.0	33.0-147			1.19	26
Isopropylbenzene	25.0	22.6	22.6	90.6	90.2	76.0-127			0.396	20
p-Isopropyltoluene	25.0	26.0	26.8	104	107	76.0-125			2.85	20
2-Butanone (MEK)	125	98.2	104	78.5	83.4	44.0-160			6.02	20
Methylene Chloride	25.0	22.2	21.9	88.6	87.8	67.0-120			0.997	20
4-Methyl-2-pentanone (MIBK)	125	112	114	89.5	91.0	68.0-142			1.64	20
Methyl tert-butyl ether	25.0	22.6	23.1	90.4	92.3	68.0-125			2.03	20
Naphthalene	25.0	15.4	15.9	61.7	63.7	54.0-135			3.26	20
n-Propylbenzene	25.0	22.1	22.5	88.3	89.8	77.0-124			1.75	20
Styrene	25.0	23.4	23.4	93.4	93.7	73.0-130			0.346	20
1,1,1,2-Tetrachloroethane	25.0	28.0	28.5	112	114	75.0-125			1.93	20
1,1,2,2-Tetrachloroethane	25.0	19.0	20.0	75.9	80.1	65.0-130			5.38	20
1,1,2-Trichlorotrifluoroethane	25.0	23.1	22.8	92.4	91.3	69.0-132			1.21	20
Tetrachloroethene	25.0	27.5	26.7	110	107	72.0-132			2.81	20
Toluene	25.0	25.5	25.2	102	101	79.0-120			0.946	20
1,2,3-Trichlorobenzene	25.0	17.5	17.9	70.0	71.7	50.0-138			2.29	20
1,2,4-Trichlorobenzene	25.0	23.5	23.5	94.0	94.2	57.0-137			0.249	20
1,1,1-Trichloroethane	25.0	24.4	24.8	97.8	99.1	73.0-124			1.38	20
1,1,2-Trichloroethane	25.0	25.4	24.9	101	99.6	80.0-120			1.83	20
Trichloroethene	25.0	25.2	24.7	101	98.7	78.0-124			2.11	20
Trichlorofluoromethane	25.0	25.7	25.6	103	102	59.0-147			0.632	20
1,2,3-Trichloropropane	25.0	21.9	22.2	87.4	88.7	73.0-130			1.48	20
1,2,4-Trimethylbenzene	25.0	24.5	25.7	98.0	103	76.0-121			4.71	20
1,2,3-Trimethylbenzene	25.0	18.5	18.9	74.0	75.5	77.0-120	J4	J4	2.02	20
1,3,5-Trimethylbenzene	25.0	23.4	24.6	93.8	98.4	76.0-122			4.82	20
Vinyl acetate	125	144	144	115	115	11.0-160			0.0277	20
Vinyl chloride	25.0	26.6	27.5	106	110	67.0-131			3.49	20
Xylenes, Total	75.0	79.4	78.7	106	105	79.0-123			0.886	20
(S) Toluene-d8				106	105	80.0-120				
(S) Dibromofluoromethane				96.0	98.0	75.0-120				
(S) 4-Bromofluorobenzene				86.0	87.0	77.0-126				

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Cp

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Al

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Method Blank (MB)

(MB) R3380783-2 02/02/19 11:47

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3380783-2 02/02/19 11:47

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
n-Hexane	U		0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
Methylene Chloride	0.0154	U	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	114			75.0-131
(S) Dibromofluoromethane	84.0			65.0-129
(S) 4-Bromofluorobenzene	104			67.0-138

¹Cp

²Tc

³Ss

⁴Cn

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⁷Gl

⁸Al

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Laboratory Control Sample (LCS)

(LCS) R3380783-1 02/02/19 10:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acrylonitrile	0.625	0.532	85.1	45.0-153	
Benzene	0.125	0.108	86.7	70.0-123	
Bromobenzene	0.125	0.110	87.7	73.0-121	
Bromodichloromethane	0.125	0.103	82.1	73.0-121	
Bromochloromethane	0.125	0.125	100	77.0-128	
Bromoform	0.125	0.123	98.3	64.0-132	
Bromomethane	0.125	0.136	109	56.0-147	
n-Butylbenzene	0.125	0.131	105	68.0-135	
sec-Butylbenzene	0.125	0.119	95.1	74.0-130	
tert-Butylbenzene	0.125	0.108	86.0	75.0-127	
Carbon disulfide	0.125	0.0942	75.4	56.0-133	
Carbon tetrachloride	0.125	0.116	92.7	66.0-128	
Chlorobenzene	0.125	0.126	101	76.0-128	
Chlorodibromomethane	0.125	0.158	126	74.0-127	
Chloroethane	0.125	0.116	92.6	61.0-134	
Chloroform	0.125	0.0993	79.4	72.0-123	
Chloromethane	0.125	0.119	95.5	51.0-138	
2-Chlorotoluene	0.125	0.143	115	75.0-124	
4-Chlorotoluene	0.125	0.105	84.3	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.156	124	59.0-130	
1,2-Dibromoethane	0.125	0.130	104	74.0-128	
Dibromomethane	0.125	0.152	122	75.0-122	
1,2-Dichlorobenzene	0.125	0.134	107	76.0-124	
1,3-Dichlorobenzene	0.125	0.122	97.7	76.0-125	
1,4-Dichlorobenzene	0.125	0.124	98.8	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.113	90.6	45.0-143	
Dichlorodifluoromethane	0.125	0.179	144	43.0-156	
1,1-Dichloroethane	0.125	0.133	107	70.0-127	
1,2-Dichloroethane	0.125	0.134	107	65.0-131	
1,1-Dichloroethene	0.125	0.125	100	65.0-131	
cis-1,2-Dichloroethene	0.125	0.0956	76.5	73.0-125	
trans-1,2-Dichloroethene	0.125	0.116	93.1	71.0-125	
1,1-Dichloropropene	0.125	0.103	82.3	73.0-125	
1,3-Dichloropropane	0.125	0.132	105	80.0-125	
cis-1,3-Dichloropropene	0.125	0.111	89.1	76.0-127	
trans-1,3-Dichloropropene	0.125	0.130	104	73.0-127	
2,2-Dichloropropane	0.125	0.153	122	59.0-135	
Di-isopropyl ether	0.125	0.102	81.2	60.0-136	
Ethylbenzene	0.125	0.135	108	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.110	87.8	57.0-150	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3380783-1 02/02/19 10:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
2-Hexanone	0.625	0.773	124	54.0-147	
n-Hexane	0.125	0.131	105	55.0-137	
Iodomethane	0.625	0.491	78.6	74.0-134	
Isopropylbenzene	0.125	0.127	101	72.0-127	
p-Isopropyltoluene	0.125	0.130	104	72.0-133	
Methylene Chloride	0.125	0.0940	75.2	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.742	119	56.0-143	
Methyl tert-butyl ether	0.125	0.109	86.9	66.0-132	
Naphthalene	0.125	0.111	88.5	59.0-130	
n-Propylbenzene	0.125	0.111	88.9	74.0-126	
Styrene	0.125	0.124	98.9	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.136	109	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.110	87.9	68.0-128	
Tetrachloroethene	0.125	0.174	139	70.0-136	J4
Toluene	0.125	0.126	101	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.127	101	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.141	113	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.125	99.6	62.0-137	
1,1,1-Trichloroethane	0.125	0.120	95.9	69.0-126	
1,1,2-Trichloroethane	0.125	0.126	101	78.0-123	
Trichloroethene	0.125	0.113	90.3	76.0-126	
Trichlorofluoromethane	0.125	0.136	109	61.0-142	
1,2,3-Trichloropropane	0.125	0.147	117	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.109	87.2	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.103	82.5	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.112	90.0	73.0-127	
Vinyl acetate	0.625	0.625	99.9	43.0-159	
Vinyl chloride	0.125	0.119	95.1	63.0-134	
Xylenes, Total	0.375	0.407	109	72.0-127	
(S) Toluene-d8			108	75.0-131	
(S) Dibromofluoromethane			90.6	65.0-129	
(S) 4-Bromofluorobenzene			103	67.0-138	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3380804-2 02/02/19 11:34

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250

¹Cp

²Tc

³Ss

⁴Cn

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Method Blank (MB)

(MB) R3380804-2 02/02/19 11:34

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexachloro-1,3-butadiene	U		0.0127	0.0250
n-Hexane	U		0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	103			75.0-131
(S) 4-Bromofluorobenzene	102			67.0-138
(S) 1,2-Dichloroethane-d4	93.7			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Laboratory Control Sample (LCS)

(LCS) R3380804-1 02/02/19 10:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acrylonitrile	0.625	0.570	91.2	45.0-153	
Benzene	0.125	0.114	91.6	70.0-123	
Bromobenzene	0.125	0.107	85.4	73.0-121	
Bromodichloromethane	0.125	0.101	80.6	73.0-121	
Bromochloromethane	0.125	0.117	93.8	77.0-128	
Bromoform	0.125	0.110	87.7	64.0-132	
Bromomethane	0.125	0.117	93.9	56.0-147	
n-Butylbenzene	0.125	0.108	86.2	68.0-135	
sec-Butylbenzene	0.125	0.115	92.0	74.0-130	
tert-Butylbenzene	0.125	0.113	90.1	75.0-127	
Carbon disulfide	0.125	0.107	85.3	56.0-133	
Carbon tetrachloride	0.125	0.116	93.0	66.0-128	
Chlorobenzene	0.125	0.112	89.9	76.0-128	
Chlorodibromomethane	0.125	0.108	86.6	74.0-127	
Chloroethane	0.125	0.118	94.0	61.0-134	
Chloroform	0.125	0.121	97.0	72.0-123	
Chloromethane	0.125	0.108	86.5	51.0-138	
2-Chlorotoluene	0.125	0.112	89.3	75.0-124	
4-Chlorotoluene	0.125	0.113	90.5	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.0990	79.2	59.0-130	
1,2-Dibromoethane	0.125	0.105	83.8	74.0-128	
Dibromomethane	0.125	0.120	96.1	75.0-122	
1,2-Dichlorobenzene	0.125	0.107	85.4	76.0-124	
1,3-Dichlorobenzene	0.125	0.112	89.8	76.0-125	
1,4-Dichlorobenzene	0.125	0.105	84.3	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.0866	69.3	45.0-143	
Dichlorodifluoromethane	0.125	0.129	103	43.0-156	
1,1-Dichloroethane	0.125	0.118	94.5	70.0-127	
1,2-Dichloroethane	0.125	0.110	88.1	65.0-131	
1,1-Dichloroethene	0.125	0.113	90.6	65.0-131	
cis-1,2-Dichloroethene	0.125	0.110	88.0	73.0-125	
trans-1,2-Dichloroethene	0.125	0.122	97.3	71.0-125	
1,2-Dichloropropane	0.125	0.120	95.9	74.0-125	
1,1-Dichloropropene	0.125	0.114	91.1	73.0-125	
1,3-Dichloropropane	0.125	0.117	93.6	80.0-125	
cis-1,3-Dichloropropene	0.125	0.108	86.7	76.0-127	
trans-1,3-Dichloropropene	0.125	0.105	84.3	73.0-127	
2,2-Dichloropropane	0.125	0.117	93.2	59.0-135	
Di-isopropyl ether	0.125	0.113	90.3	60.0-136	
Ethylbenzene	0.125	0.116	92.9	74.0-126	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3380804-1 02/02/19 10:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Hexachloro-1,3-butadiene	0.125	0.105	84.1	57.0-150	
2-Hexanone	0.625	0.550	88.1	54.0-147	
n-Hexane	0.125	0.110	87.7	55.0-137	
Iodomethane	0.625	0.564	90.3	74.0-134	
Isopropylbenzene	0.125	0.123	98.3	72.0-127	
p-Isopropyltoluene	0.125	0.109	87.1	72.0-133	
2-Butanone (MEK)	0.625	0.567	90.6	30.0-160	
Methylene Chloride	0.125	0.110	88.0	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.545	87.2	56.0-143	
Methyl tert-butyl ether	0.125	0.124	99.4	66.0-132	
Naphthalene	0.125	0.100	80.2	59.0-130	
n-Propylbenzene	0.125	0.112	89.8	74.0-126	
Styrene	0.125	0.115	92.0	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.106	84.9	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.113	90.4	68.0-128	
Tetrachloroethene	0.125	0.121	96.5	70.0-136	
Toluene	0.125	0.112	89.8	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.131	105	61.0-139	
1,2,4-Trichlorobenzene	0.125	0.0998	79.8	62.0-137	
1,1,1-Trichloroethane	0.125	0.116	92.7	69.0-126	
1,1,2-Trichloroethane	0.125	0.118	94.4	78.0-123	
Trichlorofluoromethane	0.125	0.124	99.1	61.0-142	
1,2,3-Trichloropropane	0.125	0.108	86.6	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.106	84.9	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.109	87.1	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.111	89.0	73.0-127	
Vinyl acetate	0.625	0.589	94.3	43.0-159	
Vinyl chloride	0.125	0.124	98.9	63.0-134	
Xylenes, Total	0.375	0.353	94.1	72.0-127	
(S) Toluene-d8			101	75.0-131	
(S) 4-Bromofluorobenzene			104	67.0-138	
(S) 1,2-Dichloroethane-d4			92.1	70.0-130	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3380923-2 02/03/19 11:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
cis-1,2-Dichloroethene	U		0.000690	0.00250
1,2-Dichloropropane	U		0.00127	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Tetrachloroethene	U		0.000700	0.00250
Trichloroethene	U		0.000400	0.00100
(S) Toluene-d8	102			75.0-131
(S) Dibromofluoromethane	110			65.0-129
(S) 4-Bromofluorobenzene	129			67.0-138

Laboratory Control Sample (LCS)

(LCS) R3380923-1 02/03/19 09:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.531	85.0	10.0-160	
cis-1,2-Dichloroethene	0.125	0.132	106	73.0-125	
1,2-Dichloropropane	0.125	0.154	123	74.0-125	
2-Butanone (MEK)	0.625	0.677	108	30.0-160	
Tetrachloroethene	0.125	0.112	89.7	70.0-136	
Trichloroethene	0.125	0.0947	75.7	76.0-126	J4
(S) Toluene-d8			102	75.0-131	
(S) Dibromofluoromethane			115	65.0-129	
(S) 4-Bromofluorobenzene			111	67.0-138	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3380924-2 02/03/19 11:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
Trichloroethene	U		0.000400	0.00100
(S) Toluene-d8	102			75.0-131
(S) Dibromofluoromethane	110			65.0-129
(S) 4-Bromofluorobenzene	129			67.0-138

Laboratory Control Sample (LCS)

(LCS) R3380924-1 02/03/19 09:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.531	85.0	10.0-160	
1,2,3-Trichlorobenzene	0.125	0.0940	75.2	59.0-139	
Trichloroethene	0.125	0.0947	75.7	76.0-126	J4
(S) Toluene-d8			102	75.0-131	
(S) Dibromofluoromethane			115	65.0-129	
(S) 4-Bromofluorobenzene			111	67.0-138	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3380989-2 02/03/19 11:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	0.000732	U	0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3380989-2 02/03/19 11:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
n-Hexane	U		0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
Methylene Chloride	0.00712	U	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	112			75.0-131
(S) Dibromofluoromethane	83.7			65.0-129
(S) 4-Bromofluorobenzene	95.6			67.0-138

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Laboratory Control Sample (LCS)

(LCS) R3380989-1 02/03/19 09:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acrylonitrile	0.625	0.532	85.1	45.0-153	
Benzene	0.125	0.107	85.5	70.0-123	
Bromobenzene	0.125	0.114	91.2	73.0-121	
Bromodichloromethane	0.125	0.0991	79.2	73.0-121	
Bromochloromethane	0.125	0.127	101	77.0-128	
Bromoform	0.125	0.121	97.1	64.0-132	
Bromomethane	0.125	0.126	101	56.0-147	
n-Butylbenzene	0.125	0.123	98.8	68.0-135	
sec-Butylbenzene	0.125	0.113	90.7	74.0-130	
tert-Butylbenzene	0.125	0.101	81.2	75.0-127	
Carbon disulfide	0.125	0.104	82.9	56.0-133	
Carbon tetrachloride	0.125	0.108	86.6	66.0-128	
Chlorobenzene	0.125	0.120	95.7	76.0-128	
Chlorodibromomethane	0.125	0.153	122	74.0-127	
Chloroethane	0.125	0.110	88.3	61.0-134	
Chloroform	0.125	0.0940	75.2	72.0-123	
Chloromethane	0.125	0.113	90.7	51.0-138	
2-Chlorotoluene	0.125	0.136	109	75.0-124	
4-Chlorotoluene	0.125	0.105	83.9	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.148	118	59.0-130	
1,2-Dibromoethane	0.125	0.123	98.2	74.0-128	
Dibromomethane	0.125	0.152	122	75.0-122	
1,2-Dichlorobenzene	0.125	0.130	104	76.0-124	
1,3-Dichlorobenzene	0.125	0.121	96.8	76.0-125	
1,4-Dichlorobenzene	0.125	0.119	94.9	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.110	87.9	45.0-143	
Dichlorodifluoromethane	0.125	0.151	121	43.0-156	
1,1-Dichloroethane	0.125	0.135	108	70.0-127	
1,2-Dichloroethane	0.125	0.134	108	65.0-131	
1,1-Dichloroethene	0.125	0.131	105	65.0-131	
cis-1,2-Dichloroethene	0.125	0.0960	76.8	73.0-125	
trans-1,2-Dichloroethene	0.125	0.116	92.7	71.0-125	
1,1-Dichloropropene	0.125	0.0997	79.8	73.0-125	
1,3-Dichloropropane	0.125	0.130	104	80.0-125	
cis-1,3-Dichloropropene	0.125	0.105	83.9	76.0-127	
trans-1,3-Dichloropropene	0.125	0.123	98.4	73.0-127	
2,2-Dichloropropane	0.125	0.143	115	59.0-135	
Di-isopropyl ether	0.125	0.102	81.3	60.0-136	
Ethylbenzene	0.125	0.123	98.4	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.0986	78.9	57.0-150	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3380989-1 02/03/19 09:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
2-Hexanone	0.625	0.745	119	54.0-147	
n-Hexane	0.125	0.129	103	55.0-137	
Iodomethane	0.625	0.517	82.7	74.0-134	
Isopropylbenzene	0.125	0.119	95.1	72.0-127	
p-Isopropyltoluene	0.125	0.125	100	72.0-133	
Methylene Chloride	0.125	0.101	80.6	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.753	120	56.0-143	
Methyl tert-butyl ether	0.125	0.114	91.4	66.0-132	
Naphthalene	0.125	0.106	84.5	59.0-130	
n-Propylbenzene	0.125	0.105	83.7	74.0-126	
Styrene	0.125	0.118	94.7	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.133	107	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.107	86.0	68.0-128	
Tetrachloroethene	0.125	0.161	129	70.0-136	
Toluene	0.125	0.120	96.4	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.125	100	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.134	107	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.115	91.8	62.0-137	
1,1,1-Trichloroethane	0.125	0.118	94.5	69.0-126	
1,1,2-Trichloroethane	0.125	0.123	98.4	78.0-123	
Trichloroethene	0.125	0.109	87.1	76.0-126	
Trichlorofluoromethane	0.125	0.115	91.8	61.0-142	
1,2,3-Trichloropropane	0.125	0.147	118	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.106	85.1	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.0991	79.3	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.106	85.2	73.0-127	
Vinyl acetate	0.625	0.631	101	43.0-159	
Vinyl chloride	0.125	0.114	90.8	63.0-134	
Xylenes, Total	0.375	0.389	104	72.0-127	
(S) Toluene-d8			107	75.0-131	
(S) Dibromofluoromethane			93.0	65.0-129	
(S) 4-Bromofluorobenzene			101	67.0-138	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3381113-2 02/04/19 10:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
1,2-Dichloropropane	U		0.00127	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
(S) Toluene-d8	101			75.0-131
(S) Dibromofluoromethane	119			65.0-129
(S) 4-Bromofluorobenzene	118			67.0-138

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

Laboratory Control Sample (LCS)

(LCS) R3381113-1 02/04/19 09:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.548	87.6	10.0-160	
1,2-Dichloropropane	0.125	0.159	127	74.0-125	J4
2-Butanone (MEK)	0.625	0.860	138	30.0-160	
(S) Toluene-d8			97.9	75.0-131	
(S) Dibromofluoromethane			127	65.0-129	
(S) 4-Bromofluorobenzene			112	67.0-138	

⁶Qc

⁷Gl

⁸Al

⁹Sc



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, the sample preparation volume or weight values differ from the standard, 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.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
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: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J4	The associated batch QC was outside the established quality control range for accuracy.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Pace National 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.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN2000002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

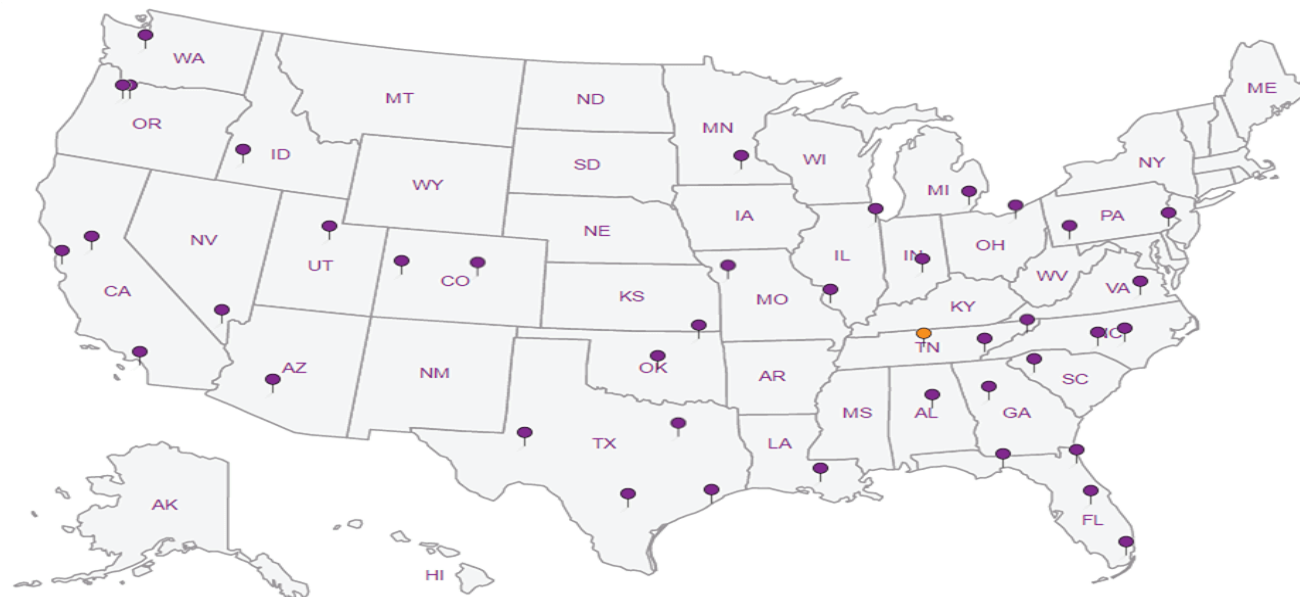
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National 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. Pace National performs all testing at our central laboratory.



Pace Analytical
National Center for Testing & Innovation

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



L# **L1064739**
C224

Acctnum: **PESENVSWA**
Template: **T144906**
Prelogin: **P689591**
TSR: **110 - Brian Ford**
PB:
Shipped Via:

Remarks	Sample # (lab only)
HOLD	01
	02
	03
HOLD	04
	05
HOLD	06
	07
	08
	09
	10

Sample Receipt Checklist

CDC Seal Present/Intact:	NP	Y	N
CDC Signed/Accurate:		Y	N
Bottles arrive intact:		Y	N
Correct bottles used:		Y	N
Sufficient volume sent:		Y	N
If Applicable			
VQA Zero Headspace:		Y	N
Preservation Correct/Checked:		Y	N

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:
Brian O'Neal/Bill Haldeman

Email To: **boneal@pesenv.com;**
bhaldeman@pesenv.com;

Project:
Description: **American Linen**

City/State
Collected: **SEATTLE, WA**

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

Client Project #
1413.001.05.501 304

Lab Project #
PESENVSWA-ALP

Collected by (print):
SHANNON MCKERNAN

Site/Facility ID #
AMERICAN LINEN

P.O. #

Collected by (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 #

Immediately
Packed on Ice: **N** ☒ **Y**

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
MW-162-48	GRAB	SS	48	1/28/19	1138	2
MW-162-50		SS	50		1140	2
B-930-50		SS	50		1142	2
MW-162-67		SS	67		1255	2
MW-162-70		SS	70		1220	2
MW-162-72		SS	72		1258	2
MW-162-80		SS	80		1205	2
MW-162-85		SS	85		1355	2
MW-162-90		SS	90		1400	2
MW-162-95		SS	95		1425	2

Analysis / Container / Preservative									
VOCs 8260C 40mlAmb/MeOH5ml/Syr									
dry weight 2ozClr-NoPres									
trip blk VOC 8260LLC 40mlAmb-HCl-Blk									

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

Remarks:

RAD SCREEN: **<0.5 mR/hr pH** Temp _____

Flow _____ Other _____

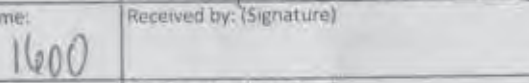
Samples returned via:
UPS ☒ FedEx _____ Courier _____

Tracking # **7466 1463 9170**

Relinquished by: (Signature)


Date: **1/30/19**

Time: **1600**

Received by: (Signature)


Date: _____

Time: _____

Trip Blank Received: **Yes / No**
1 **Cl / MeOH**
TBR

Temp: **12 BFC**

Bottles Received: **16+1=17**

Time: **50**

If preservation required by Login: Date/Time

Hold: _____

Condition: **Not / 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 3



Report to:
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;
bhaldeman@pesenv.com;

Project
Description: American Linen

City/State
Collected: SEATTLE, WA

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

Client Project #
1413.001.05.501 304

Lab Project #
PESENVSWA-ALP

Collected by (print):
SHANNON MCKERNAN

Site/Facility ID #
AMERICAN LINEN

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Immediately
Packed on Ice: N ☒ Y ☒

Same Day ☐ Five Day ☐
Next Day ☐ 5 Day (Rad Only) ☐
☒ Two Day ☐ 10 Day (Rad Only) ☐
Three Day ☐

Date Results Needed

No.
of
Ents

VOCs-8260C 40mlAmb/MeOH5ml/Syr

dry weight 2ozClr-NoPres

trip blk VOC 8260LLC 40mlAmb-HCl-Blk

L# L1065738

Table #

Acctnum: PESENVSWA

Template: T144906

Prelogin: P689591

TSR: 110 - Brian Ford

PB:

Shipped Via:

Remarks Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Ents
MW-162-100	GRAB	SS	100	1/28/19	1430	2
MW-162-105	↓	SS	105	↓	1445	2
MW-162-110	↓	SS	110	↓	1447	2
MW-163-47	↓	SS	47	1/29/18	1103	2
MW-163-50	↓	SS	50	↓	1105	2
MW-163-55	↓	SS	55	↓	1107	2
MW-163-60	↓	SS	60	↓	1109	2
MW-163-80	↓	SS	80	↓	1155	2
MW-163-85	↓	SS	85	↓	1157	2
MW-163-90	↓	SS	90	↓	1159	2

HOLD 11
HOLD 12
HOLD 13
HOLD 14
HOLD 15
HOLD 16
HOLD 17
HOLD 18
HOLD 19
HOLD 20

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

Remarks:

RAD SCREEN: <0.5 mrad/hr

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

UPS ☐ FedEx ☐ Courier ☐

Tracking #

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes/No

ACs/MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: 17.8°C

Bottles Received: 50

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: 1/31

Time: 8:45

Hold:

Condition:

NGF / OK

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
Vial Zero Headspace: ☒ Y ☐ N
Preservation Correct/Checked: ☒ Y ☐ N

Pace Analytical
National Center for Testing & Innovation

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



L# **L1065738**

Table #

Account: **PESENVSWA**

Template: **T144906**

Prelogin: **P689591**

TSR: **110 - Brian Ford**

PB:

Shipped Via:

Remarks	Sample # (lab only)
	21
	22
	23
	24
	25

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:
Brian O'Neal/Bill Haldeman

Email To: **boneal@pesenv.com;**
bhaldeman@pesenv.com;

Project:
Description: **American Linen**

City/State
Collected: **SEATTLE, WA**

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

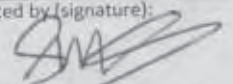
Client Project #
1413.001.05.501 304

Lab Project #
PESENVSWA-ALP

Collected by (print):
SHANNON MCKERNAN

Site/Facility ID #
AMERICAN LINEN

P.O. #

Collected by (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 #

Immediately
Packed on Ice N ☐ Y ☒

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
TRIP BLANK-013019	—	W _{SS}	—	—	—	1
MW-163-95	GRAB	SS	95	1/29/19	1452	2
MW-163-100	↓	SS	100	↓	1455	2
MW-163-105	↓	SS	105	↓	1500	2
MW-163-110	↓	SS	110	↓	1502	2
		SS				
		SS				
		SS				
		SS				
		SS				

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

Remarks:

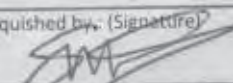
Samples returned via:
UPS FedEx Courier

Tracking #

pH Temp
Flow Other

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			
VQA Zero Headspace:		Y	N
Preservation Correct/Checked:		Y	N

Relinquished by: (Signature)


Relinquished by: (Signature)

Relinquished by: (Signature)

Date:
1/30/19

Date:

Date:

Time:
1600

Time:

Time:

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)
Malik T.

Trip Blank Received: ☒ Yes ☐ No
HCL / MeOH
TBR

Temp: **AZ BFC**
1.6 + 1.1 = 2.7

Date: **1/31** Time: **8:45**

If preservation required by Login: Date/Time

Hold:

Condition:
NO / OK

Andy Vann



Login #: L1065738	Client: PESENVSWA	Date:01/31/19	Evaluated by:Andy Vann

Non-Conformance (check applicable items)

Sample Integrity	Chain of Custody Clarification		If Broken Container:
Parameter(s) past holding time	Login Clarification Needed		Insufficient packing material around container
Temperature not in range	Chain of custody is incomplete		Insufficient packing material inside cooler
Improper container type	Please specify Metals requested.		
pH not in range	Please specify TCLP requested.	x	Improper handling by carrier (FedEx / UPS / Courier)
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: Client did not "x" the last four ids. Received one broken vial for MW-162-67.

Client informed by:	Callx	Email	Voice Mail	Date:1/31/19	Time:1620
TSR Initials:546	Client Contact: brian o neal				

Login Instructions:

Log mw-163-95,100,105,110 for VOC 8260C and TS

Continue with what we have for MW-162-67

February 14, 2019

PES Environmental, Inc.- WA

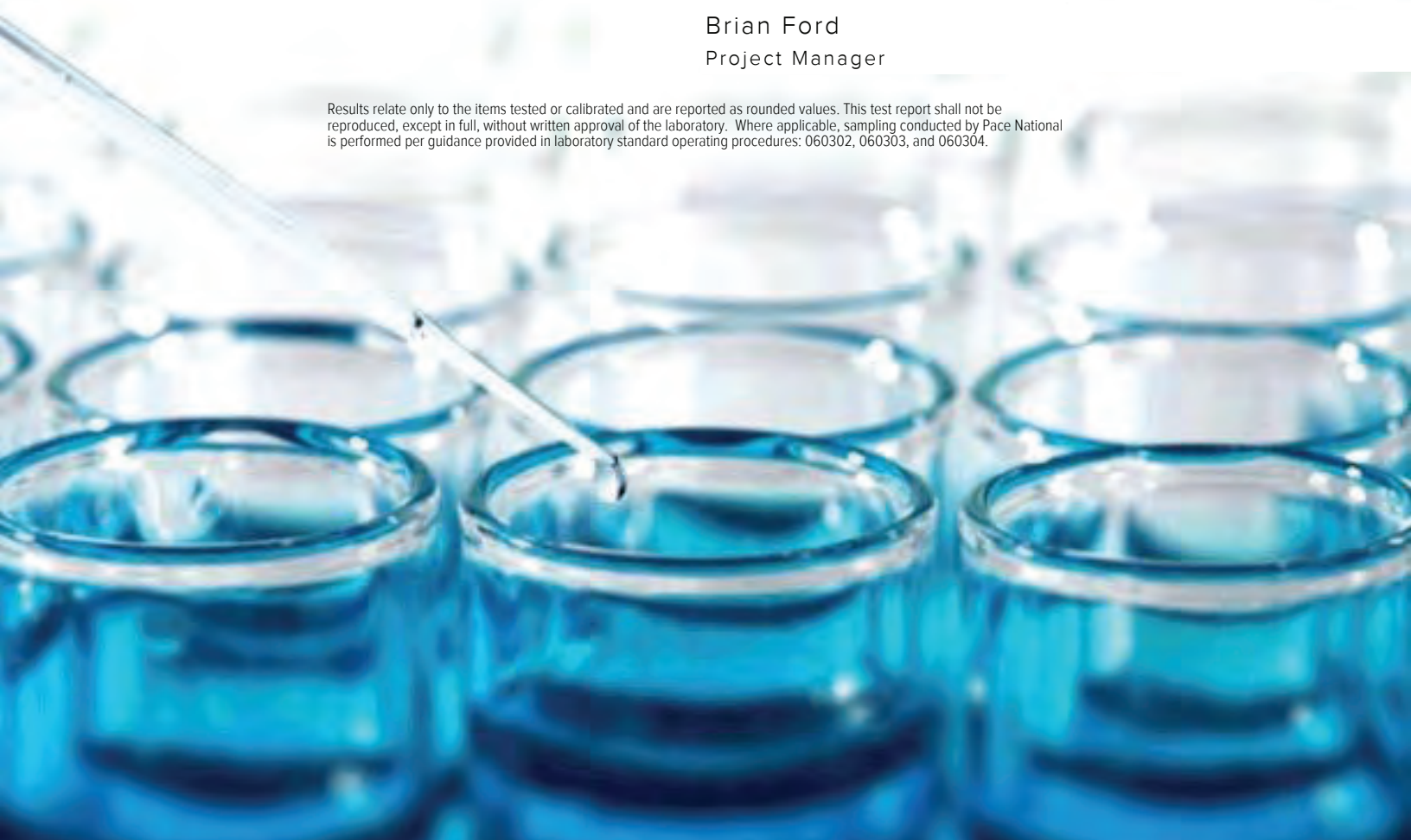
Sample Delivery Group: L1066228
Samples Received: 02/02/2019
Project Number: 1413.001.05.305
Description: American Linen
Site: AMERICAN LINEN
Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford
Project Manager

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 Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.





Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Sr: Sample Results	6
MW-130-013119 L1066228-01	6
MW-152-013119 L1066228-02	8
MW-151-013119 L1066228-03	10
MW-132-013119 L1066228-04	12
MW-135-013119 L1066228-05	14
MW-121-013119 L1066228-06	16
MW-137-020119 L1066228-07	18
MW-136-020119 L1066228-08	20
MW-133-020119 L1066228-09	22
MW-104-020119 L1066228-10	24
TRIP BLANK-020119 L1066228-11	27
Qc: Quality Control Summary	29
Wet Chemistry by Method 2320 B-2011	29
Wet Chemistry by Method 9056A	30
Wet Chemistry by Method 9060A	31
Metals (ICPMS) by Method 6020B	32
Volatile Organic Compounds (GC) by Method NWTPHGX	33
Volatile Organic Compounds (GC) by Method RSK175	36
Volatile Organic Compounds (GC/MS) by Method 8260C	37
Gl: Glossary of Terms	42
Al: Accreditations & Locations	43
Sc: Sample Chain of Custody	44



SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-130-013119 L1066228-01 GW

Collected by
Ben Hecht

Collected date/time
01/31/19 10:00

Received date/time
02/02/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1234465	10	02/08/19 14:46	02/08/19 14:46	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231972	1	02/03/19 16:05	02/03/19 16:05	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235063	1000	02/10/19 17:56	02/10/19 17:56	JHH

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-152-013119 L1066228-02 GW

Collected by
Ben Hecht

Collected date/time
01/31/19 10:15

Received date/time
02/02/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1234228	10	02/08/19 08:21	02/08/19 08:21	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231972	1	02/03/19 16:25	02/03/19 16:25	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235063	2000	02/10/19 18:16	02/10/19 18:16	JHH

MW-151-013119 L1066228-03 GW

Collected by
Ben Hecht

Collected date/time
01/31/19 12:40

Received date/time
02/02/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1234228	1	02/08/19 08:45	02/08/19 08:45	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231972	1	02/03/19 16:46	02/03/19 16:46	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235063	5	02/10/19 18:36	02/10/19 18:36	JHH

MW-132-013119 L1066228-04 GW

Collected by
Ben Hecht

Collected date/time
01/31/19 13:55

Received date/time
02/02/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1231937	1	02/03/19 19:08	02/03/19 19:08	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231972	1	02/03/19 17:06	02/03/19 17:06	GLN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235063	5	02/10/19 18:56	02/10/19 18:56	GLN

MW-135-013119 L1066228-05 GW

Collected by
Ben Hecht

Collected date/time
01/31/19 14:50

Received date/time
02/02/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1234228	10	02/08/19 09:08	02/08/19 09:08	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231972	1	02/03/19 17:26	02/03/19 17:26	GLN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235063	2000	02/10/19 19:16	02/10/19 19:16	JHH

MW-121-013119 L1066228-06 GW

Collected by
Ben Hecht

Collected date/time
01/31/19 15:20

Received date/time
02/02/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1234465	1	02/08/19 15:09	02/08/19 15:09	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231972	1	02/03/19 17:46	02/03/19 17:46	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235063	1	02/10/19 15:56	02/10/19 15:56	JHH

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

1413.001.05.305

SDG:

L1066228

DATE/TIME:

02/14/19 17:31

PAGE:

3 of 44

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-137-020119 L1066228-07 GW

Collected by Ben Hecht
Collected date/time 02/01/19 09:30
Received date/time 02/02/19 08:30

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

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1231937	1	02/03/19 20:19	02/03/19 20:19	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231972	1	02/03/19 18:06	02/03/19 18:06	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235063	1	02/10/19 16:16	02/10/19 16:16	JHH

MW-136-020119 L1066228-08 GW

Collected by Ben Hecht
Collected date/time 02/01/19 11:05
Received date/time 02/02/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1231937	1	02/03/19 20:42	02/03/19 20:42	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231972	1	02/03/19 18:26	02/03/19 18:26	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235063	1	02/10/19 16:36	02/10/19 16:36	JHH

MW-133-020119 L1066228-09 GW

Collected by Ben Hecht
Collected date/time 02/01/19 12:45
Received date/time 02/02/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1231937	1	02/03/19 21:06	02/03/19 21:06	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231972	1	02/03/19 18:47	02/03/19 18:47	JHH

MW-104-020119 L1066228-10 GW

Collected by Ben Hecht
Collected date/time 02/01/19 14:30
Received date/time 02/02/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1233465	1	02/07/19 12:08	02/07/19 12:08	GB
Wet Chemistry by Method 9056A	WG1231671	1	02/02/19 13:01	02/02/19 13:01	ELN
Wet Chemistry by Method 9060A	WG1231328	1	02/04/19 16:11	02/04/19 16:11	EEM
Metals (ICPMS) by Method 6020B	WG1232037	1	02/03/19 22:22	02/04/19 19:51	LD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1231937	1	02/03/19 21:29	02/03/19 21:29	ACE
Volatile Organic Compounds (GC) by Method RSK175	WG1232088	1	02/05/19 14:12	02/05/19 14:12	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231972	1	02/03/19 19:07	02/03/19 19:07	JHH

TRIP BLANK-020119 L1066228-11 GW

Collected by Ben Hecht
Collected date/time 02/01/19 00:00
Received date/time 02/02/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1231972	1	02/03/19 15:20	02/03/19 15:20	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235063	1	02/10/19 15:36	02/10/19 15:36	JHH



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, 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
Project Manager

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	22400		316	1000	10	02/08/2019 14:46	WG1234465
(S) a,a,a-Trifluorotoluene(FID)	86.2			78.0-120		02/08/2019 14:46	WG1234465

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	9.13	J	1.05	25.0	1	02/03/2019 16:05	WG1231972
Acrylonitrile	U		0.873	5.00	1	02/03/2019 16:05	WG1231972
Benzene	0.377	J	0.0896	0.500	1	02/03/2019 16:05	WG1231972
Bromobenzene	U		0.133	0.500	1	02/03/2019 16:05	WG1231972
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 16:05	WG1231972
Bromochloromethane	U		0.145	0.500	1	02/03/2019 16:05	WG1231972
Bromoform	U		0.186	0.500	1	02/03/2019 16:05	WG1231972
Bromomethane	U		0.157	2.50	1	02/03/2019 16:05	WG1231972
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 16:05	WG1231972
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 16:05	WG1231972
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 16:05	WG1231972
Carbon disulfide	4.57		0.101	0.500	1	02/03/2019 16:05	WG1231972
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 16:05	WG1231972
Chlorobenzene	U		0.140	0.500	1	02/03/2019 16:05	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 16:05	WG1231972
Chloroethane	U		0.141	2.50	1	02/03/2019 16:05	WG1231972
Chloroform	U		0.0860	0.500	1	02/03/2019 16:05	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 16:05	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 16:05	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 16:05	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 16:05	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 16:05	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 16:05	WG1231972
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 16:05	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 16:05	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 16:05	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 16:05	WG1231972
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 16:05	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 16:05	WG1231972
1,1-Dichloroethene	130		0.188	0.500	1	02/03/2019 16:05	WG1231972
cis-1,2-Dichloroethene	27700		93.3	500	1000	02/10/2019 17:56	WG1235063
trans-1,2-Dichloroethene	107		0.152	0.500	1	02/03/2019 16:05	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 16:05	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 16:05	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 16:05	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 16:05	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 16:05	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 16:05	WG1231972
2,2-Dichloropropane	0.128	J	0.0929	0.500	1	02/03/2019 16:05	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 16:05	WG1231972
Ethylbenzene	0.279	J	0.158	0.500	1	02/03/2019 16:05	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 16:05	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 16:05	WG1231972
n-Hexane	U		0.305	5.00	1	02/03/2019 16:05	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 16:05	WG1231972
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 16:05	WG1231972
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 16:05	WG1231972
2-Butanone (MEK)	U		1.28	5.00	1	02/03/2019 16:05	WG1231972

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/31/19 10:00

L1066228

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	02/03/2019 16:05	WG1231972
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 16:05	WG1231972
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 16:05	WG1231972
Naphthalene	0.204	J	0.174	2.50	1	02/03/2019 16:05	WG1231972
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 16:05	WG1231972
Styrene	U		0.117	0.500	1	02/03/2019 16:05	WG1231972
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 16:05	WG1231972
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 16:05	WG1231972
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 16:05	WG1231972
Tetrachloroethene	23700		199	500	1000	02/10/2019 17:56	WG1235063
Toluene	1.51		0.412	0.500	1	02/03/2019 16:05	WG1231972
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 16:05	WG1231972
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 16:05	WG1231972
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 16:05	WG1231972
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 16:05	WG1231972
Trichloroethene	4640		153	500	1000	02/10/2019 17:56	WG1235063
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 16:05	WG1231972
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 16:05	WG1231972
1,2,4-Trimethylbenzene	1.09		0.123	0.500	1	02/03/2019 16:05	WG1231972
1,2,3-Trimethylbenzene	0.622		0.0739	0.500	1	02/03/2019 16:05	WG1231972
1,3,5-Trimethylbenzene	0.394	J	0.124	0.500	1	02/03/2019 16:05	WG1231972
Vinyl acetate	U		0.645	5.00	1	02/03/2019 16:05	WG1231972
Vinyl chloride	1740		118	500	1000	02/10/2019 17:56	WG1235063
Xylenes, Total	1.22	J	0.316	1.50	1	02/03/2019 16:05	WG1231972
(S) Toluene-d8	105			80.0-120		02/03/2019 16:05	WG1231972
(S) Toluene-d8	97.6			80.0-120		02/10/2019 17:56	WG1235063
(S) Dibromofluoromethane	100			75.0-120		02/03/2019 16:05	WG1231972
(S) 4-Bromofluorobenzene	87.0			77.0-126		02/03/2019 16:05	WG1231972
(S) 4-Bromofluorobenzene	89.2			77.0-126		02/10/2019 17:56	WG1235063
(S) 1,2-Dichloroethane-d4	93.4			70.0-130		02/10/2019 17:56	WG1235063

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/31/19 10:15

L1066228

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	44300		316	1000	10	02/08/2019 08:21	WG1234228
(S) a,a,a-Trifluorotoluene(FID)	85.2			78.0-120		02/08/2019 08:21	WG1234228

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	30.9		1.05	25.0	1	02/03/2019 16:25	WG1231972
Acrylonitrile	U		0.873	5.00	1	02/03/2019 16:25	WG1231972
Benzene	0.416	J	0.0896	0.500	1	02/03/2019 16:25	WG1231972
Bromobenzene	U		0.133	0.500	1	02/03/2019 16:25	WG1231972
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 16:25	WG1231972
Bromochloromethane	U		0.145	0.500	1	02/03/2019 16:25	WG1231972
Bromoform	U		0.186	0.500	1	02/03/2019 16:25	WG1231972
Bromomethane	U		0.157	2.50	1	02/03/2019 16:25	WG1231972
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 16:25	WG1231972
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 16:25	WG1231972
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 16:25	WG1231972
Carbon disulfide	16.4		0.101	0.500	1	02/03/2019 16:25	WG1231972
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 16:25	WG1231972
Chlorobenzene	U		0.140	0.500	1	02/03/2019 16:25	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 16:25	WG1231972
Chloroethane	U		0.141	2.50	1	02/03/2019 16:25	WG1231972
Chloroform	0.137	J	0.0860	0.500	1	02/03/2019 16:25	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 16:25	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 16:25	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 16:25	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 16:25	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 16:25	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 16:25	WG1231972
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 16:25	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 16:25	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 16:25	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 16:25	WG1231972
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 16:25	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 16:25	WG1231972
1,1-Dichloroethene	86.3		0.188	0.500	1	02/03/2019 16:25	WG1231972
cis-1,2-Dichloroethene	58400		187	1000	2000	02/10/2019 18:16	WG1235063
trans-1,2-Dichloroethene	101		0.152	0.500	1	02/03/2019 16:25	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 16:25	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 16:25	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 16:25	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 16:25	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 16:25	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 16:25	WG1231972
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 16:25	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 16:25	WG1231972
Ethylbenzene	0.342	J	0.158	0.500	1	02/03/2019 16:25	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 16:25	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 16:25	WG1231972
n-Hexane	U		0.305	5.00	1	02/03/2019 16:25	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 16:25	WG1231972
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 16:25	WG1231972
p-Isopropyltoluene	0.196	J	0.138	0.500	1	02/03/2019 16:25	WG1231972
2-Butanone (MEK)	9.01		1.28	5.00	1	02/03/2019 16:25	WG1231972

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/31/19 10:15

L1066228

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	02/03/2019 16:25	WG1231972
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 16:25	WG1231972
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 16:25	WG1231972
Naphthalene	0.266	U	0.174	2.50	1	02/03/2019 16:25	WG1231972
n-Propylbenzene	0.281	U	0.162	0.500	1	02/03/2019 16:25	WG1231972
Styrene	U		0.117	0.500	1	02/03/2019 16:25	WG1231972
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 16:25	WG1231972
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 16:25	WG1231972
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 16:25	WG1231972
Tetrachloroethene	38300		398	1000	2000	02/10/2019 18:16	WG1235063
Toluene	2.61		0.412	0.500	1	02/03/2019 16:25	WG1231972
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 16:25	WG1231972
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 16:25	WG1231972
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 16:25	WG1231972
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 16:25	WG1231972
Trichloroethene	3920		306	1000	2000	02/10/2019 18:16	WG1235063
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 16:25	WG1231972
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 16:25	WG1231972
1,2,4-Trimethylbenzene	2.37		0.123	0.500	1	02/03/2019 16:25	WG1231972
1,2,3-Trimethylbenzene	0.932		0.0739	0.500	1	02/03/2019 16:25	WG1231972
1,3,5-Trimethylbenzene	0.615		0.124	0.500	1	02/03/2019 16:25	WG1231972
Vinyl acetate	U		0.645	5.00	1	02/03/2019 16:25	WG1231972
Vinyl chloride	9600		236	1000	2000	02/10/2019 18:16	WG1235063
Xylenes, Total	2.10		0.316	1.50	1	02/03/2019 16:25	WG1231972
(S) Toluene-d8	118			80.0-120		02/03/2019 16:25	WG1231972
(S) Toluene-d8	93.5			80.0-120		02/10/2019 18:16	WG1235063
(S) Dibromofluoromethane	99.0			75.0-120		02/03/2019 16:25	WG1231972
(S) 4-Bromofluorobenzene	86.0			77.0-126		02/03/2019 16:25	WG1231972
(S) 4-Bromofluorobenzene	89.2			77.0-126		02/10/2019 18:16	WG1235063
(S) 1,2-Dichloroethane-d4	96.6			70.0-130		02/10/2019 18:16	WG1235063

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	340	<u>B</u>	31.6	100	1	02/08/2019 08:45	WG1234228
(S) a,a,a-Trifluorotoluene(FID)	84.7			78.0-120		02/08/2019 08:45	WG1234228

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	14.0	<u>J</u>	1.05	25.0	1	02/03/2019 16:46	WG1231972
Acrylonitrile	U		0.873	5.00	1	02/03/2019 16:46	WG1231972
Benzene	U		0.0896	0.500	1	02/03/2019 16:46	WG1231972
Bromobenzene	U		0.133	0.500	1	02/03/2019 16:46	WG1231972
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 16:46	WG1231972
Bromochloromethane	U		0.145	0.500	1	02/03/2019 16:46	WG1231972
Bromoform	U		0.186	0.500	1	02/03/2019 16:46	WG1231972
Bromomethane	U		0.157	2.50	1	02/03/2019 16:46	WG1231972
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 16:46	WG1231972
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 16:46	WG1231972
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 16:46	WG1231972
Carbon disulfide	0.344	<u>J</u>	0.101	0.500	1	02/03/2019 16:46	WG1231972
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 16:46	WG1231972
Chlorobenzene	U		0.140	0.500	1	02/03/2019 16:46	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 16:46	WG1231972
Chloroethane	6.11		0.141	2.50	1	02/03/2019 16:46	WG1231972
Chloroform	U		0.0860	0.500	1	02/03/2019 16:46	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 16:46	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 16:46	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 16:46	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 16:46	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 16:46	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 16:46	WG1231972
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 16:46	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 16:46	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 16:46	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 16:46	WG1231972
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 16:46	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 16:46	WG1231972
1,1-Dichloroethene	3.15		0.188	0.500	1	02/03/2019 16:46	WG1231972
cis-1,2-Dichloroethene	466		0.466	2.50	5	02/10/2019 18:36	WG1235063
trans-1,2-Dichloroethene	3.52		0.152	0.500	1	02/03/2019 16:46	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 16:46	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 16:46	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 16:46	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 16:46	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 16:46	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 16:46	WG1231972
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 16:46	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 16:46	WG1231972
Ethylbenzene	U		0.158	0.500	1	02/03/2019 16:46	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 16:46	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 16:46	WG1231972
n-Hexane	0.560	<u>J</u>	0.305	5.00	1	02/03/2019 16:46	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 16:46	WG1231972
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 16:46	WG1231972
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 16:46	WG1231972
2-Butanone (MEK)	1.71	<u>J</u>	1.28	5.00	1	02/03/2019 16:46	WG1231972

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	02/03/2019 16:46	WG1231972
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 16:46	WG1231972
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 16:46	WG1231972
Naphthalene	U		0.174	2.50	1	02/03/2019 16:46	WG1231972
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 16:46	WG1231972
Styrene	U		0.117	0.500	1	02/03/2019 16:46	WG1231972
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 16:46	WG1231972
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 16:46	WG1231972
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 16:46	WG1231972
Tetrachloroethene	106		0.995	2.50	5	02/10/2019 18:36	WG1235063
Toluene	U		0.412	0.500	1	02/03/2019 16:46	WG1231972
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 16:46	WG1231972
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 16:46	WG1231972
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 16:46	WG1231972
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 16:46	WG1231972
Trichloroethene	40.4		0.765	2.50	5	02/10/2019 18:36	WG1235063
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 16:46	WG1231972
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 16:46	WG1231972
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/03/2019 16:46	WG1231972
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/03/2019 16:46	WG1231972
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/03/2019 16:46	WG1231972
Vinyl acetate	U		0.645	5.00	1	02/03/2019 16:46	WG1231972
Vinyl chloride	158		0.590	2.50	5	02/10/2019 18:36	WG1235063
Xylenes, Total	U		0.316	1.50	1	02/03/2019 16:46	WG1231972
(S) Toluene-d8	105			80.0-120		02/03/2019 16:46	WG1231972
(S) Toluene-d8	97.2			80.0-120		02/10/2019 18:36	WG1235063
(S) Dibromofluoromethane	99.0			75.0-120		02/03/2019 16:46	WG1231972
(S) 4-Bromofluorobenzene	84.0			77.0-126		02/03/2019 16:46	WG1231972
(S) 4-Bromofluorobenzene	85.8			77.0-126		02/10/2019 18:36	WG1235063
(S) 1,2-Dichloroethane-d4	91.8			70.0-130		02/10/2019 18:36	WG1235063

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	104	B	31.6	100	1	02/03/2019 19:08	WG1231937
(S) a,a,a-Trifluorotoluene(FID)	88.9			78.0-120		02/03/2019 19:08	WG1231937

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	7.79	J	1.05	25.0	1	02/03/2019 17:06	WG1231972
Acrylonitrile	U		0.873	5.00	1	02/03/2019 17:06	WG1231972
Benzene	U		0.0896	0.500	1	02/03/2019 17:06	WG1231972
Bromobenzene	U		0.133	0.500	1	02/03/2019 17:06	WG1231972
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 17:06	WG1231972
Bromochloromethane	U		0.145	0.500	1	02/03/2019 17:06	WG1231972
Bromoform	U		0.186	0.500	1	02/03/2019 17:06	WG1231972
Bromomethane	U		0.157	2.50	1	02/03/2019 17:06	WG1231972
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 17:06	WG1231972
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 17:06	WG1231972
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 17:06	WG1231972
Carbon disulfide	U		0.101	0.500	1	02/03/2019 17:06	WG1231972
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 17:06	WG1231972
Chlorobenzene	U		0.140	0.500	1	02/03/2019 17:06	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 17:06	WG1231972
Chloroethane	U		0.141	2.50	1	02/03/2019 17:06	WG1231972
Chloroform	U		0.0860	0.500	1	02/03/2019 17:06	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 17:06	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 17:06	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 17:06	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 17:06	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 17:06	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 17:06	WG1231972
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 17:06	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 17:06	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 17:06	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 17:06	WG1231972
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 17:06	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 17:06	WG1231972
1,1-Dichloroethene	0.366	J	0.188	0.500	1	02/03/2019 17:06	WG1231972
cis-1,2-Dichloroethene	108		0.0933	0.500	1	02/03/2019 17:06	WG1231972
trans-1,2-Dichloroethene	0.506		0.152	0.500	1	02/03/2019 17:06	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 17:06	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 17:06	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 17:06	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 17:06	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 17:06	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 17:06	WG1231972
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 17:06	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 17:06	WG1231972
Ethylbenzene	U		0.158	0.500	1	02/03/2019 17:06	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 17:06	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 17:06	WG1231972
n-Hexane	U		0.305	5.00	1	02/03/2019 17:06	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 17:06	WG1231972
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 17:06	WG1231972
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 17:06	WG1231972
2-Butanone (MEK)	U		1.28	5.00	1	02/03/2019 17:06	WG1231972

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	02/03/2019 17:06	WG1231972
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 17:06	WG1231972
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 17:06	WG1231972
Naphthalene	U		0.174	2.50	1	02/03/2019 17:06	WG1231972
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 17:06	WG1231972
Styrene	U		0.117	0.500	1	02/03/2019 17:06	WG1231972
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 17:06	WG1231972
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 17:06	WG1231972
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 17:06	WG1231972
Tetrachloroethene	22.9		0.199	0.500	1	02/03/2019 17:06	WG1231972
Toluene	U		0.412	0.500	1	02/03/2019 17:06	WG1231972
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 17:06	WG1231972
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 17:06	WG1231972
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 17:06	WG1231972
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 17:06	WG1231972
Trichloroethene	1.95		0.153	0.500	1	02/03/2019 17:06	WG1231972
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 17:06	WG1231972
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 17:06	WG1231972
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/03/2019 17:06	WG1231972
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/03/2019 17:06	WG1231972
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/03/2019 17:06	WG1231972
Vinyl acetate	U		0.645	5.00	1	02/03/2019 17:06	WG1231972
Vinyl chloride	269		0.590	2.50	5	02/10/2019 18:56	WG1235063
Xylenes, Total	U		0.316	1.50	1	02/03/2019 17:06	WG1231972
(S) Toluene-d8	105			80.0-120		02/03/2019 17:06	WG1231972
(S) Toluene-d8	92.9			80.0-120		02/10/2019 18:56	WG1235063
(S) Dibromofluoromethane	100			75.0-120		02/03/2019 17:06	WG1231972
(S) 4-Bromofluorobenzene	82.0			77.0-126		02/03/2019 17:06	WG1231972
(S) 4-Bromofluorobenzene	82.7			77.0-126		02/10/2019 18:56	WG1235063
(S) 1,2-Dichloroethane-d4	92.6			70.0-130		02/10/2019 18:56	WG1235063

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	42700		316	1000	10	02/08/2019 09:08	WG1234228
(S) a,a,a-Trifluorotoluene(FID)	85.7			78.0-120		02/08/2019 09:08	WG1234228

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
Acetone	27.6		1.05	25.0	1	02/03/2019 17:26	WG1231972
Acrylonitrile	U		0.873	5.00	1	02/03/2019 17:26	WG1231972
Benzene	0.695		0.0896	0.500	1	02/03/2019 17:26	WG1231972
Bromobenzene	U		0.133	0.500	1	02/03/2019 17:26	WG1231972
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 17:26	WG1231972
Bromochloromethane	U		0.145	0.500	1	02/03/2019 17:26	WG1231972
Bromoform	U		0.186	0.500	1	02/03/2019 17:26	WG1231972
Bromomethane	U		0.157	2.50	1	02/03/2019 17:26	WG1231972
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 17:26	WG1231972
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 17:26	WG1231972
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 17:26	WG1231972
Carbon disulfide	0.462	J	0.101	0.500	1	02/03/2019 17:26	WG1231972
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 17:26	WG1231972
Chlorobenzene	U		0.140	0.500	1	02/03/2019 17:26	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 17:26	WG1231972
Chloroethane	1.40	J	0.141	2.50	1	02/03/2019 17:26	WG1231972
Chloroform	U		0.0860	0.500	1	02/03/2019 17:26	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 17:26	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 17:26	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 17:26	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 17:26	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 17:26	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 17:26	WG1231972
1,2-Dichlorobenzene	0.147	J	0.101	0.500	1	02/03/2019 17:26	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 17:26	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 17:26	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 17:26	WG1231972
1,1-Dichloroethane	0.396	J	0.114	0.500	1	02/03/2019 17:26	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 17:26	WG1231972
1,1-Dichloroethene	225	E	0.188	0.500	1	02/03/2019 17:26	WG1231972
cis-1,2-Dichloroethene	37400		187	1000	2000	02/10/2019 19:16	WG1235063
trans-1,2-Dichloroethene	68.6		0.152	0.500	1	02/03/2019 17:26	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 17:26	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 17:26	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 17:26	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 17:26	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 17:26	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 17:26	WG1231972
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 17:26	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 17:26	WG1231972
Ethylbenzene	0.571		0.158	0.500	1	02/03/2019 17:26	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 17:26	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 17:26	WG1231972
n-Hexane	U		0.305	5.00	1	02/03/2019 17:26	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 17:26	WG1231972
Isopropylbenzene	0.136	J	0.126	0.500	1	02/03/2019 17:26	WG1231972
p-Isopropyltoluene	0.195	J	0.138	0.500	1	02/03/2019 17:26	WG1231972
2-Butanone (MEK)	4.87	J	1.28	5.00	1	02/03/2019 17:26	WG1231972



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	02/03/2019 17:26	WG1231972
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 17:26	WG1231972
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 17:26	WG1231972
Naphthalene	0.227	J	0.174	2.50	1	02/03/2019 17:26	WG1231972
n-Propylbenzene	0.376	J	0.162	0.500	1	02/03/2019 17:26	WG1231972
Styrene	U		0.117	0.500	1	02/03/2019 17:26	WG1231972
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 17:26	WG1231972
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 17:26	WG1231972
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 17:26	WG1231972
Tetrachloroethene	56500		398	1000	2000	02/10/2019 19:16	WG1235063
Toluene	5.12		0.412	0.500	1	02/03/2019 17:26	WG1231972
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 17:26	WG1231972
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 17:26	WG1231972
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 17:26	WG1231972
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 17:26	WG1231972
Trichloroethene	9530		306	1000	2000	02/10/2019 19:16	WG1235063
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 17:26	WG1231972
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 17:26	WG1231972
1,2,4-Trimethylbenzene	2.50		0.123	0.500	1	02/03/2019 17:26	WG1231972
1,2,3-Trimethylbenzene	1.08		0.0739	0.500	1	02/03/2019 17:26	WG1231972
1,3,5-Trimethylbenzene	0.786		0.124	0.500	1	02/03/2019 17:26	WG1231972
Vinyl acetate	U		0.645	5.00	1	02/03/2019 17:26	WG1231972
Vinyl chloride	1090		236	1000	2000	02/10/2019 19:16	WG1235063
Xylenes, Total	3.43		0.316	1.50	1	02/03/2019 17:26	WG1231972
(S) Toluene-d8	142	J1		80.0-120		02/03/2019 17:26	WG1231972
(S) Toluene-d8	93.4			80.0-120		02/10/2019 19:16	WG1235063
(S) Dibromofluoromethane	99.0			75.0-120		02/03/2019 17:26	WG1231972
(S) 4-Bromofluorobenzene	86.0			77.0-126		02/03/2019 17:26	WG1231972
(S) 4-Bromofluorobenzene	85.3			77.0-126		02/10/2019 19:16	WG1235063
(S) 1,2-Dichloroethane-d4	94.8			70.0-130		02/10/2019 19:16	WG1235063

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Sample Narrative:

L1066228-05 WG1231972: Surrogate failure due to matrix interference



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	38.0	<u>B</u>	31.6	100	1	02/08/2019 15:09	WG1234465
(S) a,a,a-Trifluorotoluene(FID)	86.0			78.0-120		02/08/2019 15:09	WG1234465

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	7.53	<u>J</u>	1.05	25.0	1	02/03/2019 17:46	WG1231972
Acrylonitrile	U		0.873	5.00	1	02/03/2019 17:46	WG1231972
Benzene	U		0.0896	0.500	1	02/03/2019 17:46	WG1231972
Bromobenzene	U		0.133	0.500	1	02/03/2019 17:46	WG1231972
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 17:46	WG1231972
Bromochloromethane	U		0.145	0.500	1	02/03/2019 17:46	WG1231972
Bromoform	U		0.186	0.500	1	02/03/2019 17:46	WG1231972
Bromomethane	U		0.157	2.50	1	02/03/2019 17:46	WG1231972
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 17:46	WG1231972
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 17:46	WG1231972
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 17:46	WG1231972
Carbon disulfide	U		0.101	0.500	1	02/03/2019 17:46	WG1231972
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 17:46	WG1231972
Chlorobenzene	U		0.140	0.500	1	02/03/2019 17:46	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 17:46	WG1231972
Chloroethane	U		0.141	2.50	1	02/03/2019 17:46	WG1231972
Chloroform	U		0.0860	0.500	1	02/03/2019 17:46	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 17:46	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 17:46	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 17:46	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 17:46	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 17:46	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 17:46	WG1231972
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 17:46	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 17:46	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 17:46	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 17:46	WG1231972
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 17:46	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 17:46	WG1231972
1,1-Dichloroethene	U		0.188	0.500	1	02/03/2019 17:46	WG1231972
cis-1,2-Dichloroethene	5.53		0.0933	0.500	1	02/10/2019 15:56	WG1235063
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/03/2019 17:46	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 17:46	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 17:46	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 17:46	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 17:46	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 17:46	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 17:46	WG1231972
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 17:46	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 17:46	WG1231972
Ethylbenzene	U		0.158	0.500	1	02/03/2019 17:46	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 17:46	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 17:46	WG1231972
n-Hexane	U		0.305	5.00	1	02/03/2019 17:46	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 17:46	WG1231972
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 17:46	WG1231972
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 17:46	WG1231972
2-Butanone (MEK)	U		1.28	5.00	1	02/03/2019 17:46	WG1231972

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	02/03/2019 17:46	WG1231972
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 17:46	WG1231972
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 17:46	WG1231972
Naphthalene	U		0.174	2.50	1	02/03/2019 17:46	WG1231972
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 17:46	WG1231972
Styrene	U		0.117	0.500	1	02/03/2019 17:46	WG1231972
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 17:46	WG1231972
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 17:46	WG1231972
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 17:46	WG1231972
Tetrachloroethene	U		0.199	0.500	1	02/10/2019 15:56	WG1235063
Toluene	U		0.412	0.500	1	02/03/2019 17:46	WG1231972
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 17:46	WG1231972
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 17:46	WG1231972
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 17:46	WG1231972
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 17:46	WG1231972
Trichloroethene	U		0.153	0.500	1	02/10/2019 15:56	WG1235063
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 17:46	WG1231972
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 17:46	WG1231972
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/03/2019 17:46	WG1231972
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/03/2019 17:46	WG1231972
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/03/2019 17:46	WG1231972
Vinyl acetate	U		0.645	5.00	1	02/03/2019 17:46	WG1231972
Vinyl chloride	19.8		0.118	0.500	1	02/10/2019 15:56	WG1235063
Xylenes, Total	U		0.316	1.50	1	02/03/2019 17:46	WG1231972
(S) Toluene-d8	106			80.0-120		02/03/2019 17:46	WG1231972
(S) Toluene-d8	96.5			80.0-120		02/10/2019 15:56	WG1235063
(S) Dibromofluoromethane	98.0			75.0-120		02/03/2019 17:46	WG1231972
(S) 4-Bromofluorobenzene	83.0			77.0-126		02/03/2019 17:46	WG1231972
(S) 4-Bromofluorobenzene	89.3			77.0-126		02/10/2019 15:56	WG1235063
(S) 1,2-Dichloroethane-d4	91.7			70.0-130		02/10/2019 15:56	WG1235063

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/01/19 09:30

L1066228

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	58.4	<u>B</u>	31.6	100	1	02/03/2019 20:19	WG1231937
(S) a,a,a-Trifluorotoluene(FID)	88.8			78.0-120		02/03/2019 20:19	WG1231937

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	02/03/2019 18:06	WG1231972
Acrylonitrile	U		0.873	5.00	1	02/03/2019 18:06	WG1231972
Benzene	U		0.0896	0.500	1	02/03/2019 18:06	WG1231972
Bromobenzene	U		0.133	0.500	1	02/03/2019 18:06	WG1231972
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 18:06	WG1231972
Bromochloromethane	U		0.145	0.500	1	02/03/2019 18:06	WG1231972
Bromoform	U		0.186	0.500	1	02/03/2019 18:06	WG1231972
Bromomethane	U		0.157	2.50	1	02/03/2019 18:06	WG1231972
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 18:06	WG1231972
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 18:06	WG1231972
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 18:06	WG1231972
Carbon disulfide	0.114	<u>J</u>	0.101	0.500	1	02/03/2019 18:06	WG1231972
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 18:06	WG1231972
Chlorobenzene	U		0.140	0.500	1	02/03/2019 18:06	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 18:06	WG1231972
Chloroethane	U		0.141	2.50	1	02/03/2019 18:06	WG1231972
Chloroform	U		0.0860	0.500	1	02/03/2019 18:06	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 18:06	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 18:06	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 18:06	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 18:06	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 18:06	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 18:06	WG1231972
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 18:06	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 18:06	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 18:06	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 18:06	WG1231972
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 18:06	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 18:06	WG1231972
1,1-Dichloroethene	U		0.188	0.500	1	02/03/2019 18:06	WG1231972
cis-1,2-Dichloroethene	0.616		0.0933	0.500	1	02/10/2019 16:16	WG1235063
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/03/2019 18:06	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 18:06	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 18:06	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 18:06	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 18:06	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 18:06	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 18:06	WG1231972
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 18:06	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 18:06	WG1231972
Ethylbenzene	U		0.158	0.500	1	02/03/2019 18:06	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 18:06	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 18:06	WG1231972
n-Hexane	U		0.305	5.00	1	02/03/2019 18:06	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 18:06	WG1231972
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 18:06	WG1231972
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 18:06	WG1231972
2-Butanone (MEK)	U		1.28	5.00	1	02/03/2019 18:06	WG1231972

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	02/03/2019 18:06	WG1231972
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 18:06	WG1231972
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 18:06	WG1231972
Naphthalene	U		0.174	2.50	1	02/03/2019 18:06	WG1231972
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 18:06	WG1231972
Styrene	U		0.117	0.500	1	02/03/2019 18:06	WG1231972
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 18:06	WG1231972
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 18:06	WG1231972
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 18:06	WG1231972
Tetrachloroethene	1.48		0.199	0.500	1	02/10/2019 16:16	WG1235063
Toluene	U		0.412	0.500	1	02/03/2019 18:06	WG1231972
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 18:06	WG1231972
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 18:06	WG1231972
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 18:06	WG1231972
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 18:06	WG1231972
Trichloroethene	U		0.153	0.500	1	02/10/2019 16:16	WG1235063
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 18:06	WG1231972
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 18:06	WG1231972
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/03/2019 18:06	WG1231972
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/03/2019 18:06	WG1231972
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/03/2019 18:06	WG1231972
Vinyl acetate	U		0.645	5.00	1	02/03/2019 18:06	WG1231972
Vinyl chloride	0.365	J	0.118	0.500	1	02/10/2019 16:16	WG1235063
Xylenes, Total	U		0.316	1.50	1	02/03/2019 18:06	WG1231972
(S) Toluene-d8	105			80.0-120		02/03/2019 18:06	WG1231972
(S) Toluene-d8	93.3			80.0-120		02/10/2019 16:16	WG1235063
(S) Dibromofluoromethane	101			75.0-120		02/03/2019 18:06	WG1231972
(S) 4-Bromofluorobenzene	82.0			77.0-126		02/03/2019 18:06	WG1231972
(S) 4-Bromofluorobenzene	85.3			77.0-126		02/10/2019 16:16	WG1235063
(S) 1,2-Dichloroethane-d4	94.7			70.0-130		02/10/2019 16:16	WG1235063

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	44.5	<u>B</u>	31.6	100	1	02/03/2019 20:42	WG1231937
(S) a,a,a-Trifluorotoluene(FID)	89.1			78.0-120		02/03/2019 20:42	WG1231937

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	02/03/2019 18:26	WG1231972
Acrylonitrile	U		0.873	5.00	1	02/03/2019 18:26	WG1231972
Benzene	U		0.0896	0.500	1	02/03/2019 18:26	WG1231972
Bromobenzene	U		0.133	0.500	1	02/03/2019 18:26	WG1231972
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 18:26	WG1231972
Bromochloromethane	U		0.145	0.500	1	02/03/2019 18:26	WG1231972
Bromoform	U		0.186	0.500	1	02/03/2019 18:26	WG1231972
Bromomethane	U		0.157	2.50	1	02/03/2019 18:26	WG1231972
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 18:26	WG1231972
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 18:26	WG1231972
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 18:26	WG1231972
Carbon disulfide	U		0.101	0.500	1	02/03/2019 18:26	WG1231972
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 18:26	WG1231972
Chlorobenzene	U		0.140	0.500	1	02/03/2019 18:26	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 18:26	WG1231972
Chloroethane	U		0.141	2.50	1	02/03/2019 18:26	WG1231972
Chloroform	U		0.0860	0.500	1	02/03/2019 18:26	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 18:26	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 18:26	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 18:26	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 18:26	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 18:26	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 18:26	WG1231972
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 18:26	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 18:26	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 18:26	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 18:26	WG1231972
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 18:26	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 18:26	WG1231972
1,1-Dichloroethene	U		0.188	0.500	1	02/03/2019 18:26	WG1231972
cis-1,2-Dichloroethene	0.851		0.0933	0.500	1	02/10/2019 16:36	WG1235063
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/03/2019 18:26	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 18:26	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 18:26	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 18:26	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 18:26	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 18:26	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 18:26	WG1231972
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 18:26	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 18:26	WG1231972
Ethylbenzene	U		0.158	0.500	1	02/03/2019 18:26	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 18:26	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 18:26	WG1231972
n-Hexane	U		0.305	5.00	1	02/03/2019 18:26	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 18:26	WG1231972
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 18:26	WG1231972
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 18:26	WG1231972
2-Butanone (MEK)	U		1.28	5.00	1	02/03/2019 18:26	WG1231972

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/01/19 11:05

L1066228

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	02/03/2019 18:26	WG1231972
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 18:26	WG1231972
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 18:26	WG1231972
Naphthalene	U		0.174	2.50	1	02/03/2019 18:26	WG1231972
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 18:26	WG1231972
Styrene	U		0.117	0.500	1	02/03/2019 18:26	WG1231972
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 18:26	WG1231972
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 18:26	WG1231972
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 18:26	WG1231972
Tetrachloroethene	1.26		0.199	0.500	1	02/10/2019 16:36	WG1235063
Toluene	U		0.412	0.500	1	02/03/2019 18:26	WG1231972
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 18:26	WG1231972
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 18:26	WG1231972
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 18:26	WG1231972
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 18:26	WG1231972
Trichloroethene	0.293	J	0.153	0.500	1	02/10/2019 16:36	WG1235063
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 18:26	WG1231972
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 18:26	WG1231972
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/03/2019 18:26	WG1231972
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/03/2019 18:26	WG1231972
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/03/2019 18:26	WG1231972
Vinyl acetate	U		0.645	5.00	1	02/03/2019 18:26	WG1231972
Vinyl chloride	0.186	J	0.118	0.500	1	02/10/2019 16:36	WG1235063
Xylenes, Total	U		0.316	1.50	1	02/03/2019 18:26	WG1231972
(S) Toluene-d8	105			80.0-120		02/03/2019 18:26	WG1231972
(S) Toluene-d8	96.1			80.0-120		02/10/2019 16:36	WG1235063
(S) Dibromofluoromethane	102			75.0-120		02/03/2019 18:26	WG1231972
(S) 4-Bromofluorobenzene	80.0			77.0-126		02/03/2019 18:26	WG1231972
(S) 4-Bromofluorobenzene	87.2			77.0-126		02/10/2019 16:36	WG1235063
(S) 1,2-Dichloroethane-d4	92.4			70.0-130		02/10/2019 16:36	WG1235063

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	46.4	<u>B</u>	31.6	100	1	02/03/2019 21:06	WG1231937
(S) a,a,a-Trifluorotoluene(FID)	88.7			78.0-120		02/03/2019 21:06	WG1231937

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	02/03/2019 18:47	WG1231972
Acrylonitrile	U		0.873	5.00	1	02/03/2019 18:47	WG1231972
Benzene	U		0.0896	0.500	1	02/03/2019 18:47	WG1231972
Bromobenzene	U		0.133	0.500	1	02/03/2019 18:47	WG1231972
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 18:47	WG1231972
Bromochloromethane	U		0.145	0.500	1	02/03/2019 18:47	WG1231972
Bromoform	U		0.186	0.500	1	02/03/2019 18:47	WG1231972
Bromomethane	U		0.157	2.50	1	02/03/2019 18:47	WG1231972
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 18:47	WG1231972
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 18:47	WG1231972
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 18:47	WG1231972
Carbon disulfide	U		0.101	0.500	1	02/03/2019 18:47	WG1231972
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 18:47	WG1231972
Chlorobenzene	U		0.140	0.500	1	02/03/2019 18:47	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 18:47	WG1231972
Chloroethane	U		0.141	2.50	1	02/03/2019 18:47	WG1231972
Chloroform	U		0.0860	0.500	1	02/03/2019 18:47	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 18:47	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 18:47	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 18:47	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 18:47	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 18:47	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 18:47	WG1231972
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 18:47	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 18:47	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 18:47	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 18:47	WG1231972
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 18:47	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 18:47	WG1231972
1,1-Dichloroethene	1.94		0.188	0.500	1	02/03/2019 18:47	WG1231972
cis-1,2-Dichloroethene	12.4		0.0933	0.500	1	02/03/2019 18:47	WG1231972
trans-1,2-Dichloroethene	0.588		0.152	0.500	1	02/03/2019 18:47	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 18:47	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 18:47	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 18:47	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 18:47	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 18:47	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 18:47	WG1231972
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 18:47	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 18:47	WG1231972
Ethylbenzene	U		0.158	0.500	1	02/03/2019 18:47	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 18:47	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 18:47	WG1231972
n-Hexane	U		0.305	5.00	1	02/03/2019 18:47	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 18:47	WG1231972
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 18:47	WG1231972
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 18:47	WG1231972
2-Butanone (MEK)	U		1.28	5.00	1	02/03/2019 18:47	WG1231972

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	02/03/2019 18:47	WG1231972
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 18:47	WG1231972
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 18:47	WG1231972
Naphthalene	U		0.174	2.50	1	02/03/2019 18:47	WG1231972
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 18:47	WG1231972
Styrene	U		0.117	0.500	1	02/03/2019 18:47	WG1231972
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 18:47	WG1231972
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 18:47	WG1231972
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 18:47	WG1231972
Tetrachloroethene	22.4		0.199	0.500	1	02/03/2019 18:47	WG1231972
Toluene	U		0.412	0.500	1	02/03/2019 18:47	WG1231972
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 18:47	WG1231972
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 18:47	WG1231972
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 18:47	WG1231972
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 18:47	WG1231972
Trichloroethene	9.29		0.153	0.500	1	02/03/2019 18:47	WG1231972
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 18:47	WG1231972
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 18:47	WG1231972
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/03/2019 18:47	WG1231972
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/03/2019 18:47	WG1231972
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/03/2019 18:47	WG1231972
Vinyl acetate	U		0.645	5.00	1	02/03/2019 18:47	WG1231972
Vinyl chloride	4.36		0.118	0.500	1	02/03/2019 18:47	WG1231972
Xylenes, Total	U		0.316	1.50	1	02/03/2019 18:47	WG1231972
(S) Toluene-d8	106			80.0-120		02/03/2019 18:47	WG1231972
(S) Dibromofluoromethane	99.0			75.0-120		02/03/2019 18:47	WG1231972
(S) 4-Bromofluorobenzene	82.0			77.0-126		02/03/2019 18:47	WG1231972

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	79800		2710	20000	1	02/07/2019 12:08	WG1233465

Sample Narrative:

L1066228-10 WG1233465: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	6740		51.9	1000	1	02/02/2019 13:01	WG1231671
Nitrate	U		22.7	100	1	02/02/2019 13:01	WG1231671
Sulfate	5500		77.4	5000	1	02/02/2019 13:01	WG1231671

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	6720		102	1000	1	02/04/2019 16:11	WG1231328

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	37000		15.0	100	1	02/04/2019 19:51	WG1232037
Manganese	656		0.250	5.00	1	02/04/2019 19:51	WG1232037

Volatile Organic Compounds (GC) by Method NWTPHGX

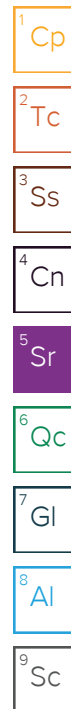
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	191	<u>B</u>	31.6	100	1	02/03/2019 21:29	WG1231937
(S) <i>o,a,a</i> -Trifluorotoluene(FID)	88.8			78.0-120		02/03/2019 21:29	WG1231937

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	605		0.287	0.678	1	02/05/2019 14:12	WG1232088
Ethane	2.41		0.296	1.29	1	02/05/2019 14:12	WG1232088
Ethene	29.4		0.422	1.27	1	02/05/2019 14:12	WG1232088

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	72.7		1.05	25.0	1	02/03/2019 19:07	WG1231972
Acrylonitrile	U		0.873	5.00	1	02/03/2019 19:07	WG1231972
Benzene	U		0.0896	0.500	1	02/03/2019 19:07	WG1231972
Bromobenzene	U		0.133	0.500	1	02/03/2019 19:07	WG1231972
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 19:07	WG1231972
Bromochloromethane	U		0.145	0.500	1	02/03/2019 19:07	WG1231972
Bromoform	U		0.186	0.500	1	02/03/2019 19:07	WG1231972
Bromomethane	U		0.157	2.50	1	02/03/2019 19:07	WG1231972
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 19:07	WG1231972
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 19:07	WG1231972
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 19:07	WG1231972
Carbon disulfide	0.179	<u>J</u>	0.101	0.500	1	02/03/2019 19:07	WG1231972
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 19:07	WG1231972





Collected date/time: 02/01/19 14:30

L1066228

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	02/03/2019 19:07	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 19:07	WG1231972
Chloroethane	U		0.141	2.50	1	02/03/2019 19:07	WG1231972
Chloroform	U		0.0860	0.500	1	02/03/2019 19:07	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 19:07	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 19:07	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 19:07	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 19:07	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 19:07	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 19:07	WG1231972
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 19:07	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 19:07	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 19:07	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 19:07	WG1231972
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 19:07	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 19:07	WG1231972
1,1-Dichloroethene	0.415	U	0.188	0.500	1	02/03/2019 19:07	WG1231972
cis-1,2-Dichloroethene	30.6		0.0933	0.500	1	02/03/2019 19:07	WG1231972
trans-1,2-Dichloroethene	0.326	U	0.152	0.500	1	02/03/2019 19:07	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 19:07	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 19:07	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 19:07	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 19:07	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 19:07	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 19:07	WG1231972
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 19:07	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 19:07	WG1231972
Ethylbenzene	U		0.158	0.500	1	02/03/2019 19:07	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 19:07	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 19:07	WG1231972
n-Hexane	U		0.305	5.00	1	02/03/2019 19:07	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 19:07	WG1231972
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 19:07	WG1231972
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 19:07	WG1231972
2-Butanone (MEK)	68.5		1.28	5.00	1	02/03/2019 19:07	WG1231972
Methylene Chloride	U		1.07	2.50	1	02/03/2019 19:07	WG1231972
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 19:07	WG1231972
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 19:07	WG1231972
Naphthalene	U		0.174	2.50	1	02/03/2019 19:07	WG1231972
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 19:07	WG1231972
Styrene	U		0.117	0.500	1	02/03/2019 19:07	WG1231972
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 19:07	WG1231972
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 19:07	WG1231972
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 19:07	WG1231972
Tetrachloroethene	12.1		0.199	0.500	1	02/03/2019 19:07	WG1231972
Toluene	U		0.412	0.500	1	02/03/2019 19:07	WG1231972
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 19:07	WG1231972
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 19:07	WG1231972
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 19:07	WG1231972
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 19:07	WG1231972
Trichloroethene	3.22		0.153	0.500	1	02/03/2019 19:07	WG1231972
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 19:07	WG1231972
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 19:07	WG1231972
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/03/2019 19:07	WG1231972
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/03/2019 19:07	WG1231972
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/03/2019 19:07	WG1231972

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

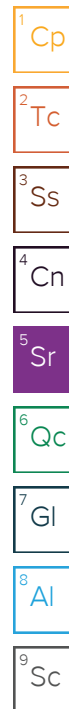
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	02/03/2019 19:07	WG1231972
Vinyl chloride	32.4		0.118	0.500	1	02/03/2019 19:07	WG1231972
Xylenes, Total	U		0.316	1.50	1	02/03/2019 19:07	WG1231972
(S) Toluene-d8	102			80.0-120		02/03/2019 19:07	WG1231972
(S) Dibromofluoromethane	101			75.0-120		02/03/2019 19:07	WG1231972
(S) 4-Bromofluorobenzene	83.0			77.0-126		02/03/2019 19:07	WG1231972

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
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	
Acetone	U		1.05	25.0	1	02/03/2019 15:20	WG1231972
Acrylonitrile	U		0.873	5.00	1	02/03/2019 15:20	WG1231972
Benzene	U		0.0896	0.500	1	02/03/2019 15:20	WG1231972
Bromobenzene	U		0.133	0.500	1	02/03/2019 15:20	WG1231972
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 15:20	WG1231972
Bromochloromethane	U		0.145	0.500	1	02/03/2019 15:20	WG1231972
Bromoform	U		0.186	0.500	1	02/03/2019 15:20	WG1231972
Bromomethane	U		0.157	2.50	1	02/03/2019 15:20	WG1231972
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 15:20	WG1231972
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 15:20	WG1231972
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 15:20	WG1231972
Carbon disulfide	U		0.101	0.500	1	02/03/2019 15:20	WG1231972
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 15:20	WG1231972
Chlorobenzene	U		0.140	0.500	1	02/03/2019 15:20	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 15:20	WG1231972
Chloroethane	U		0.141	2.50	1	02/03/2019 15:20	WG1231972
Chloroform	U		0.0860	0.500	1	02/03/2019 15:20	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 15:20	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 15:20	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 15:20	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 15:20	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 15:20	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 15:20	WG1231972
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 15:20	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 15:20	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 15:20	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 15:20	WG1231972
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 15:20	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 15:20	WG1231972
1,1-Dichloroethene	U		0.188	0.500	1	02/03/2019 15:20	WG1231972
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/03/2019 15:20	WG1231972
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/03/2019 15:20	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 15:20	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 15:20	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 15:20	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 15:20	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 15:20	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 15:20	WG1231972
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 15:20	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 15:20	WG1231972
Ethylbenzene	U		0.158	0.500	1	02/03/2019 15:20	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 15:20	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 15:20	WG1231972
n-Hexane	U		0.305	5.00	1	02/03/2019 15:20	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 15:20	WG1231972
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 15:20	WG1231972
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 15:20	WG1231972
2-Butanone (MEK)	U		1.28	5.00	1	02/03/2019 15:20	WG1231972
Methylene Chloride	U		1.07	2.50	1	02/03/2019 15:20	WG1231972
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 15:20	WG1231972
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 15:20	WG1231972
Naphthalene	U		0.174	2.50	1	02/03/2019 15:20	WG1231972
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 15:20	WG1231972
Styrene	U		0.117	0.500	1	02/03/2019 15:20	WG1231972
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 15:20	WG1231972
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 15:20	WG1231972





Collected date/time: 02/01/19 00:00

L1066228

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	02/03/2019 15:20	WG1231972
Tetrachloroethene	U		0.199	0.500	1	02/10/2019 15:36	WG1235063
Toluene	0.566		0.412	0.500	1	02/03/2019 15:20	WG1231972
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 15:20	WG1231972
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 15:20	WG1231972
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 15:20	WG1231972
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 15:20	WG1231972
Trichloroethene	0.155	U	0.153	0.500	1	02/03/2019 15:20	WG1231972
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 15:20	WG1231972
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 15:20	WG1231972
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/03/2019 15:20	WG1231972
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/03/2019 15:20	WG1231972
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/03/2019 15:20	WG1231972
Vinyl acetate	U		0.645	5.00	1	02/03/2019 15:20	WG1231972
Vinyl chloride	U		0.118	0.500	1	02/03/2019 15:20	WG1231972
Xylenes, Total	U		0.316	1.50	1	02/03/2019 15:20	WG1231972
(S) Toluene-d8	103			80.0-120		02/03/2019 15:20	WG1231972
(S) Toluene-d8	93.7			80.0-120		02/10/2019 15:36	WG1235063
(S) Dibromofluoromethane	100			75.0-120		02/03/2019 15:20	WG1231972
(S) 4-Bromofluorobenzene	82.0			77.0-126		02/03/2019 15:20	WG1231972
(S) 4-Bromofluorobenzene	87.6			77.0-126		02/10/2019 15:36	WG1235063
(S) 1,2-Dichloroethane-d4	93.5			70.0-130		02/10/2019 15:36	WG1235063

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3382027-1 02/07/19 11:41

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Alkalinity	3040	⬇	2710	20000

Sample Narrative:
BLANK: Endpoint pH 4.5

L1066170-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1066170-01 02/07/19 11:47 • (DUP) R3382027-3 02/07/19 11:54

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	196000	201000	1	2.94		20

Sample Narrative:
OS: Endpoint pH 4.5 headspace
DUP: Endpoint pH 4.5

L1066793-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1066793-01 02/07/19 15:31 • (DUP) R3382027-8 02/07/19 15:37

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	ND	15700	1	0.000		20

Sample Narrative:
OS: Endpoint pH 4.5
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3382027-5 02/07/19 12:57

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Alkalinity	100000	102000	102	85.0-115	

Sample Narrative:
LCS: Endpoint pH 4.5

1

Cp

2

Tc

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Ss

4

Cn

5

Sr

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Qc

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Gl

8

Al

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Sc

Method Blank (MB)

(MB) R3380770-1 02/02/19 08:55

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		51.9	1000
Nitrate	U		22.7	100
Sulfate	U		77.4	5000

L1061476-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1061476-24 02/02/19 10:45 • (DUP) R3380770-3 02/02/19 11:00

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	7020	7050	1	0.344		15
Sulfate	48900	49100	1	0.306		15

L1061476-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1061476-24 02/02/19 11:16 • (DUP) R3380770-4 02/02/19 11:32

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	141000	139000	5	1.12		15

Laboratory Control Sample (LCS)

(LCS) R3380770-2 02/02/19 09:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	40300	101	80.0-120	
Nitrate	8000	8150	102	80.0-120	
Sulfate	40000	41400	104	80.0-120	

L1066218-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1066218-01 02/02/19 13:49 • (MS) R3380770-5 02/02/19 14:05 • (MSD) R3380770-6 02/02/19 14:21

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 %
Chloride	50000	2380	51600	51500	98.3	98.3	1	80.0-120			0.0679	15
Nitrate	5000	175	5010	4990	96.7	96.3	1	80.0-120			0.432	15
Sulfate	50000	ND	50500	50400	98.9	98.5	1	80.0-120			0.310	15

1

Cp

2

Tc

3

Ss

4

Cn

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Sr

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Qc

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Gl

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Al

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Sc



Method Blank (MB)

(MB) R3381182-1 02/04/19 10:58

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	133	⬇	102	1000

L1065649-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1065649-08 02/04/19 12:02 • (DUP) R3381182-3 02/04/19 12:19

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC	7210	7990	1	10.3		20

L1066228-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1066228-10 02/04/19 16:11 • (DUP) R3381182-6 02/04/19 16:23

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC	6720	6430	1	4.40		20

Laboratory Control Sample (LCS)

(LCS) R3381182-2 02/04/19 11:32

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC	75000	79600	106	85.0-115	

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3381161-1 02/04/19 18:31

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iron	U		15.0	100
Manganese	U		0.250	5.00

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) R3381161-2 02/04/19 18:36 • (LCSD) R3381161-3 02/04/19 18:40

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 %
Iron	5000	4720	4720	94.4	94.4	80.0-120			0.0625	20
Manganese	50.0	49.9	48.0	99.9	95.9	80.0-120			4.07	20

L1065710-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1065710-04 02/04/19 18:45 • (MS) R3381161-5 02/04/19 18:54 • (MSD) R3381161-6 02/04/19 18:59

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 %
Iron	5000	2830	7450	7530	92.4	94.0	1	75.0-125			1.06	20
Manganese	50.0	66.2	114	115	95.1	98.3	1	75.0-125			1.40	20



Method Blank (MB)

(MB) R3382104-2 02/03/19 13:23

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	95.1	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	89.3			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3382104-1 02/03/19 12:36

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5390	98.1	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			95.8	78.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3382211-2 02/07/19 22:22

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	41.6	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	84.5			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3382211-1 02/07/19 21:34

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5050	91.8	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			91.4	78.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3382539-3 02/08/19 14:01

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	47.3	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	85.7			78.0-120

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

(LCS) R3382539-2 02/08/19 13:14 • (LCSD) R3382539-1 02/08/19 11:54

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	4870	4800	88.5	87.3	70.0-124			1.34	20
(S) a,a,a-Trifluorotoluene(FID)				90.3	90.3	78.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3381322-1 02/05/19 11:44

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1065892-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1065892-01 02/05/19 11:46 • (DUP) R3381322-2 02/05/19 14:09

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Methane	ND	0.000	1	0.000		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20

L1066323-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1066323-02 02/05/19 14:32 • (DUP) R3381322-3 02/05/19 15:09

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Methane	ND	0.000	1	0.000		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20

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

(LCS) R3381322-4 02/05/19 15:12 • (LCSD) R3381322-5 02/05/19 15:16

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	72.4	74.1	107	109	85.0-115			2.32	20
Ethane	129	112	112	86.9	87.2	85.0-115			0.390	20
Ethene	127	111	111	87.6	87.4	85.0-115			0.202	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



[L1066228-01,02,03,04,05,06,07,08,09,10,11](#)

Method Blank (MB)

(MB) R3382516-3 02/03/19 09:40

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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3382516-3 02/03/19 09:40

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
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	0.306	U	0.199	0.500
Vinyl acetate	U		0.645	5.00
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	106			80.0-120
(S) Dibromofluoromethane	100			75.0-120
(S) 4-Bromofluorobenzene	83.0			77.0-126

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3382516-1 02/03/19 08:41 • (LCSD) R3382516-2 02/03/19 09:00

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromochloromethane	25.0	26.3	26.0	105	104	76.0-122			1.42	20
Carbon disulfide	25.0	24.7	24.9	98.9	99.6	61.0-128			0.612	20
Acetone	125	122	122	97.4	97.9	19.0-160			0.492	27
Acrylonitrile	125	119	120	95.1	96.0	55.0-149			0.923	20
Benzene	25.0	23.5	23.5	94.2	94.0	70.0-123			0.159	20
Bromobenzene	25.0	20.8	21.4	83.2	85.4	73.0-121			2.60	20
Bromodichloromethane	25.0	26.3	26.9	105	108	75.0-120			2.35	20
Bromoform	25.0	22.4	23.0	89.4	92.0	68.0-132			2.84	20
Bromomethane	25.0	31.1	27.2	124	109	10.0-160			13.3	25
trans-1,4-Dichloro-2-butene	25.0	22.1	23.9	88.4	95.7	33.0-144			7.93	20
n-Butylbenzene	25.0	27.4	27.3	110	109	73.0-125			0.464	20
sec-Butylbenzene	25.0	27.4	27.3	109	109	75.0-125			0.249	20
tert-Butylbenzene	25.0	28.0	28.4	112	114	76.0-124			1.61	20
2-Hexanone	125	114	124	90.8	99.0	67.0-149			8.64	20
Carbon tetrachloride	25.0	23.9	23.5	95.6	93.9	68.0-126			1.74	20
Chlorobenzene	25.0	26.9	27.7	108	111	80.0-121			2.99	20
n-Hexane	25.0	28.9	27.6	116	110	57.0-133			4.73	20
Chlorodibromomethane	25.0	25.0	26.3	99.9	105	77.0-125			5.31	20
Iodomethane	125	128	128	102	102	33.0-147			0.277	26
Chloroethane	25.0	27.5	25.7	110	103	47.0-150			6.56	20
Chloroform	25.0	23.8	24.0	95.0	96.2	73.0-120			1.19	20
Chloromethane	25.0	31.5	30.6	126	122	41.0-142			2.77	20
2-Chlorotoluene	25.0	24.7	25.6	98.9	102	76.0-123			3.30	20
4-Chlorotoluene	25.0	26.1	26.8	104	107	75.0-122			2.83	20
1,2-Dibromo-3-Chloropropane	25.0	21.1	21.3	84.3	85.3	58.0-134			1.14	20
1,2-Dibromoethane	25.0	24.6	25.8	98.4	103	80.0-122			4.77	20
Dibromomethane	25.0	25.5	25.2	102	101	80.0-120			1.43	20
1,2-Dichlorobenzene	25.0	28.2	27.9	113	112	79.0-121			1.04	20
1,3-Dichlorobenzene	25.0	27.9	28.2	112	113	79.0-120			1.08	20
1,4-Dichlorobenzene	25.0	24.9	25.1	99.8	101	79.0-120			0.795	20
Dichlorodifluoromethane	25.0	30.7	29.9	123	120	51.0-149			2.58	20
1,1-Dichloroethane	25.0	26.1	25.7	104	103	70.0-126			1.48	20
1,2-Dichloroethane	25.0	25.1	25.2	100	101	70.0-128			0.376	20
1,1-Dichloroethene	25.0	25.3	25.6	101	102	71.0-124			1.25	20
cis-1,2-Dichloroethene	25.0	25.4	25.9	102	104	73.0-120			1.78	20
trans-1,2-Dichloroethene	25.0	25.1	25.9	100	104	73.0-120			3.31	20
1,2-Dichloropropane	25.0	27.0	27.2	108	109	77.0-125			0.456	20
1,1-Dichloropropene	25.0	23.8	23.5	95.1	93.8	74.0-126			1.37	20
1,3-Dichloropropane	25.0	24.8	26.8	99.1	107	80.0-120			7.76	20
cis-1,3-Dichloropropene	25.0	25.7	27.5	103	110	80.0-123			6.88	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3382516-1 02/03/19 08:41 • (LCSD) R3382516-2 02/03/19 09:00

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 %
Vinyl acetate	125	159	159	127	127	11.0-160			0.0114	20
trans-1,3-Dichloropropene	25.0	26.9	27.7	108	111	78.0-124			3.10	20
2,2-Dichloropropane	25.0	31.3	31.4	125	126	58.0-130			0.585	20
Di-isopropyl ether	25.0	26.9	27.0	107	108	58.0-138			0.623	20
Ethylbenzene	25.0	25.0	25.5	99.9	102	79.0-123			2.19	20
Hexachloro-1,3-butadiene	25.0	26.9	24.8	108	99.2	54.0-138			8.13	20
Isopropylbenzene	25.0	23.1	23.8	92.3	95.1	76.0-127			2.95	20
p-Isopropyltoluene	25.0	28.3	28.4	113	114	76.0-125			0.511	20
2-Butanone (MEK)	125	115	118	91.6	94.0	44.0-160			2.60	20
Methylene Chloride	25.0	23.6	23.4	94.4	93.7	67.0-120			0.658	20
4-Methyl-2-pentanone (MIBK)	125	115	122	91.7	97.9	68.0-142			6.51	20
Methyl tert-butyl ether	25.0	23.9	25.0	95.8	99.8	68.0-125			4.11	20
Naphthalene	25.0	17.2	16.8	68.6	67.1	54.0-135			2.30	20
n-Propylbenzene	25.0	23.2	23.5	92.6	94.2	77.0-124			1.69	20
Styrene	25.0	24.2	24.9	96.6	99.8	73.0-130			3.19	20
1,1,1,2-Tetrachloroethane	25.0	28.0	28.4	112	114	75.0-125			1.58	20
1,1,2,2-Tetrachloroethane	25.0	20.7	21.5	82.8	85.8	65.0-130			3.51	20
Tetrachloroethene	25.0	27.3	28.8	109	115	72.0-132			5.25	20
Toluene	25.0	25.5	26.3	102	105	79.0-120			2.90	20
1,1,2-Trichlorotrifluoroethane	25.0	26.3	25.8	105	103	69.0-132			2.04	20
1,2,3-Trichlorobenzene	25.0	20.2	18.6	80.9	74.4	50.0-138			8.35	20
1,2,4-Trichlorobenzene	25.0	26.0	23.5	104	94.2	57.0-137			9.90	20
1,1,1-Trichloroethane	25.0	26.7	25.5	107	102	73.0-124			4.52	20
1,1,2-Trichloroethane	25.0	23.9	25.7	95.6	103	80.0-120			7.43	20
Trichloroethene	25.0	26.8	26.0	107	104	78.0-124			3.18	20
Trichlorofluoromethane	25.0	26.3	26.0	105	104	59.0-147			0.875	20
1,2,3-Trichloropropane	25.0	23.2	24.2	92.8	96.8	73.0-130			4.27	20
1,2,3-Trimethylbenzene	25.0	19.7	19.9	78.6	79.5	77.0-120			1.06	20
1,2,4-Trimethylbenzene	25.0	27.3	26.2	109	105	76.0-121			4.32	20
1,3,5-Trimethylbenzene	25.0	25.1	25.6	100	103	76.0-122			2.25	20
Vinyl chloride	25.0	28.9	27.4	116	110	67.0-131			5.27	20
Xylenes, Total	75.0	78.2	80.4	104	107	79.0-123			2.77	20
(S) Toluene-d8				101	105	80.0-120				
(S) Dibromofluoromethane				99.0	101	75.0-120				
(S) 4-Bromofluorobenzene				84.0	88.0	77.0-126				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3382623-4 02/10/19 10:17

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0933	0.500
Tetrachloroethene	U		0.199	0.500
Trichloroethene	U		0.153	0.500
Vinyl chloride	U		0.118	0.500
(S) Toluene-d8	95.7			80.0-120
(S) 4-Bromofluorobenzene	86.5			77.0-126
(S) 1,2-Dichloroethane-d4	93.7			70.0-130

1Cp

2Tc

3Ss

4Cn

5Sr

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

(LCS) R3382623-1 02/10/19 08:57 • (LCSD) R3382623-2 02/10/19 09:17

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-1,2-Dichloroethene	25.0	24.0	23.9	96.1	95.6	73.0-120			0.486	20
Tetrachloroethene	25.0	22.6	22.8	90.5	91.4	72.0-132			0.958	20
Trichloroethene	25.0	23.1	23.9	92.5	95.7	78.0-124			3.39	20
Vinyl chloride	25.0	29.5	28.9	118	115	67.0-131			2.10	20
(S) Toluene-d8				95.6	95.4	80.0-120				
(S) 4-Bromofluorobenzene				85.5	84.3	77.0-126				
(S) 1,2-Dichloroethane-d4				99.9	97.6	70.0-130				

6Qc

7Gl

8Al

9Sc



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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
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, the sample preparation volume or weight values differ from the standard, 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.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
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.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Pace National 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.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

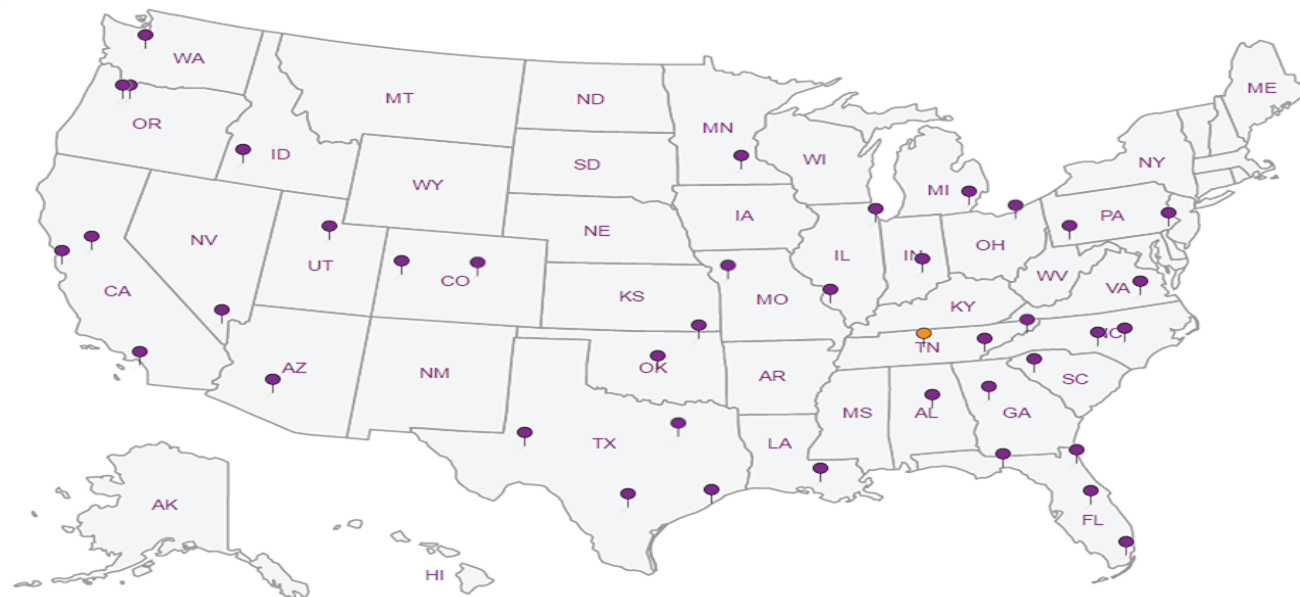
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National 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. Pace National 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:
Brian O'Neal/Bill Haldeman

Project:
Description: American Linen

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

Client Project #
1413.001.05.001 305

Collected by (print):

Collected by (signature):

Immediately
Packed on ice N ☒

Site/Facility ID #
American Linen

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

City/State
Collected: Seattle, WA

Lab Project #
PESENVSWA-ALP

P.O. #

Quote #

Date Results Needed

No.
of
Cntrs

Analysis / Container / Preservative

Pres
Chk

Chain of Custody Page ____ of ____



L# L1666220

F070

Account: PESENVSWA

Template: T143845

Prelogin: P685358

TSR: 110 - Brian Ford

PB: 12/13/18 MB

Shipped Via: FedEx Ground

Remarks Sample # (left only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NO3, SO4, Cl* 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM (RSK175LL) 40mlAmb-HCl	NWTPHGX 40mlAmb HCl	TOC 250mlAmb-HCl	Total Fe Mn 6020 250mlHDPE-HNO3	VOCs (8260LLC) 40mlAmb-HCl
MW-130-013119	Grab	GW	75	01/31/19	1000	6				X			X
MW-152-013119		GW	55	01/31/19	1015	6				X			X
MW-151-013119		GW	40	01/31/19	1240	6				X			X
MW-132-013119		GW	75	01/31/19	1355	6				X			X
MW-135-013119		GW	75	01/31/19	1450	6				X			X
MW-121-013119		GW	20	01/31/19	1520	6				X			X
MW-137-020119		GW	110	02/01/19	0930	6				X			X
MW-136-020119		GW	89.6	02/01/19	1105	6				X			X
MW-133-020119		GW	134	02/01/19	1245	6				X			X
MW-104-020119		GW	124	02/01/19	1430	12	X	X	X	X	X	X	X

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

Remarks:

Trip Blank-020119, run for VOCs. 1 VOA - pH Temp
RAD SCREEN - 0.5 mR/hr Flow Other

Samples returned via:

UPS ☒ FedEx ☐ Courier ☐

Tracking #

4269 9216 6438

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Trip Blank Received: Yes/No

ALC/MeOH TBR

Temp: °C Bottles Received:

1.6-0.1-15.8 66

Date: Time:

02/02/19 08:30

Sample Receipt Checklist
COC Real Present/Intact: ☒
COC Signed/Accurately: ☒
Bottles arrive Intact: ☒
Correct bottles used: ☒
Sufficient volume sent: ☒
If Applicable
VOA Zero Headspace: ☒
Preservation Correct/Checked: ☒
SCREEN: 0.5 mR/hr

If preservation required by Login: Date/Time

Hold: Condition: NCF 1/OK

February 14, 2019

PES Environmental, Inc.- WA

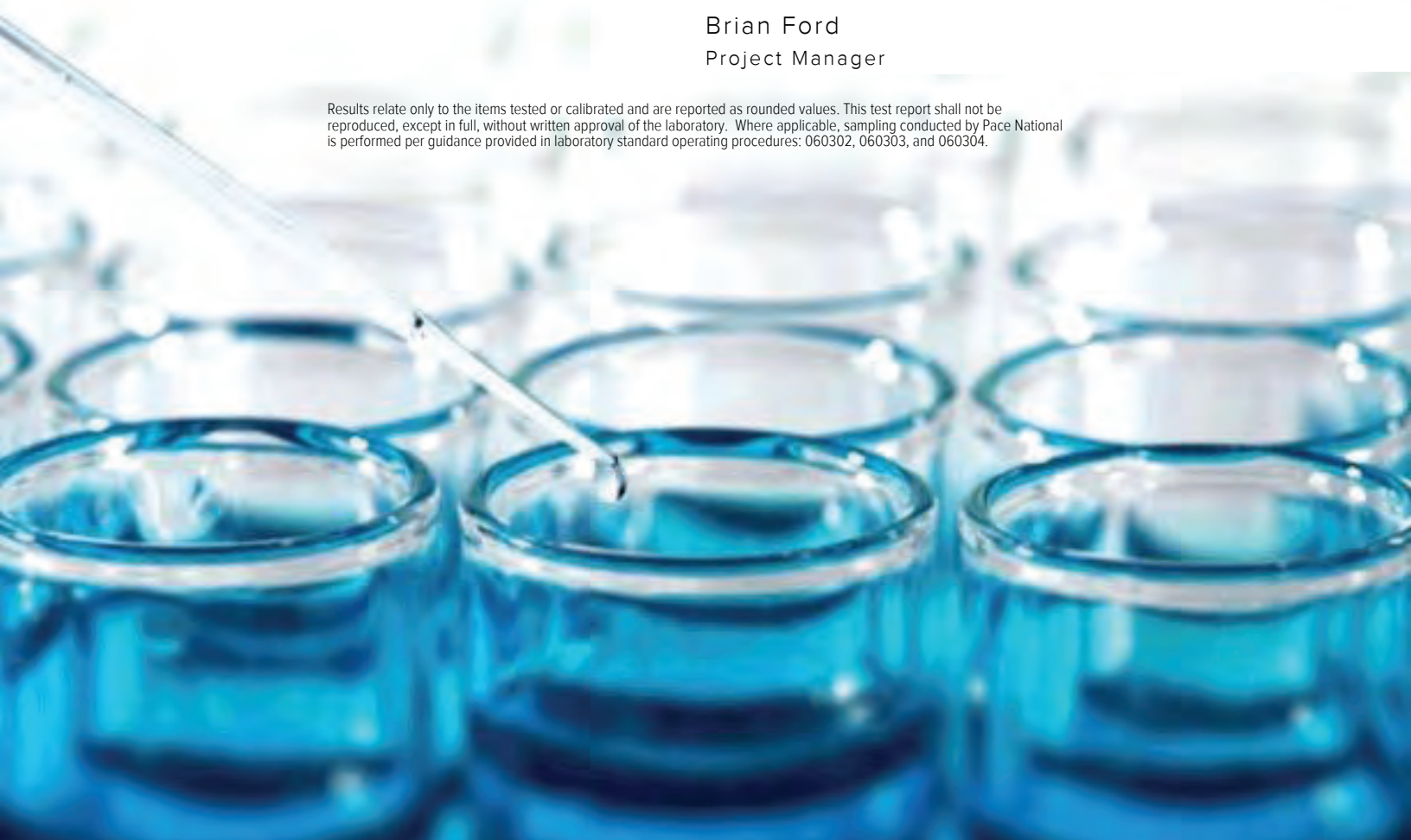
Sample Delivery Group: L1068057
Samples Received: 02/08/2019
Project Number: 1413.001.05.305
Description: American Linen
Site: AMERICAN LINEN
Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford
Project Manager

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 Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.





Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
MW113-020719 L1068057-01	5
TRIP BLANK-020719 L1068057-02	8
Qc: Quality Control Summary	10
Wet Chemistry by Method 2320 B-2011	10
Wet Chemistry by Method 9056A	11
Wet Chemistry by Method 9060A	13
Metals (ICPMS) by Method 6020B	14
Volatile Organic Compounds (GC) by Method NWTPHGX	15
Volatile Organic Compounds (GC) by Method RSK175	16
Volatile Organic Compounds (GC/MS) by Method 8260C	17
Gl: Glossary of Terms	22
Al: Accreditations & Locations	23
Sc: Sample Chain of Custody	24



SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW113-020719 L1068057-01 GW

Collected by
Ben Hecht

Collected date/time
02/07/19 10:40

Received date/time
02/08/19 08:45

¹Cp

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1235357	1	02/12/19 14:44	02/12/19 14:44	GB
Wet Chemistry by Method 9056A	WG1234306	1	02/08/19 22:32	02/08/19 22:32	ST
Wet Chemistry by Method 9060A	WG1234334	1	02/08/19 18:38	02/08/19 18:38	EEM
Metals (ICPMS) by Method 6020B	WG1235757	1	02/13/19 13:33	02/14/19 11:10	JPD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1234480	1	02/08/19 15:57	02/08/19 15:57	DWR
Volatile Organic Compounds (GC) by Method RSK175	WG1235211	1	02/12/19 11:18	02/12/19 11:18	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1234600	1	02/08/19 17:22	02/08/19 17:22	JCP
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235840	250	02/12/19 14:16	02/12/19 14:16	JHH

²Tc

³Ss

⁴Cn

⁵Sr

TRIP BLANK-020719 L1068057-02 GW

Collected by
Ben Hecht

Collected date/time
02/07/19 00:00

Received date/time
02/08/19 08:45

⁶Qc

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1234600	1	02/08/19 16:02	02/08/19 16:02	JCP

⁷Gl

⁸Al

⁹Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, 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
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	551000		2710	20000	1	02/12/2019 14:44	WG1235357

Sample Narrative:

L1068057-01 WG1235357: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	43900		51.9	1000	1	02/08/2019 22:32	WG1234306
Nitrate	38.9	J	22.7	100	1	02/08/2019 22:32	WG1234306
Sulfate	33300		77.4	5000	1	02/08/2019 22:32	WG1234306

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	18800		102	1000	1	02/08/2019 18:38	WG1234334

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	6110		15.0	100	1	02/14/2019 11:10	WG1235757
Manganese	659		0.250	5.00	1	02/14/2019 11:10	WG1235757

Volatile Organic Compounds (GC) by Method NWTPHGX

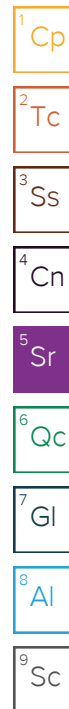
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	3100		31.6	100	1	02/08/2019 15:57	WG1234480
(S) <i>o,a,a</i> -Trifluorotoluene(FID)	85.8			78.0-120		02/08/2019 15:57	WG1234480

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	4050		0.287	0.678	1	02/12/2019 11:18	WG1235211
Ethane	39.9		0.296	1.29	1	02/12/2019 11:18	WG1235211
Ethene	6.30		0.422	1.27	1	02/12/2019 11:18	WG1235211

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	2.79	J J3	1.05	25.0	1	02/08/2019 17:22	WG1234600
Acrylonitrile	U		0.873	5.00	1	02/08/2019 17:22	WG1234600
Benzene	0.811		0.0896	0.500	1	02/08/2019 17:22	WG1234600
Bromobenzene	U		0.133	0.500	1	02/08/2019 17:22	WG1234600
Bromodichloromethane	U		0.0800	0.500	1	02/08/2019 17:22	WG1234600
Bromochloromethane	U		0.145	0.500	1	02/08/2019 17:22	WG1234600
Bromoform	U		0.186	0.500	1	02/08/2019 17:22	WG1234600
Bromomethane	U		0.157	2.50	1	02/08/2019 17:22	WG1234600
n-Butylbenzene	U		0.143	0.500	1	02/08/2019 17:22	WG1234600
sec-Butylbenzene	U		0.134	0.500	1	02/08/2019 17:22	WG1234600
tert-Butylbenzene	U		0.183	0.500	1	02/08/2019 17:22	WG1234600
Carbon disulfide	U		0.101	0.500	1	02/08/2019 17:22	WG1234600
Carbon tetrachloride	U		0.159	0.500	1	02/08/2019 17:22	WG1234600





Collected date/time: 02/07/19 10:40

L1068057

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	02/08/2019 17:22	WG1234600
Chlorodibromomethane	U		0.128	0.500	1	02/08/2019 17:22	WG1234600
Chloroethane	U		0.141	2.50	1	02/08/2019 17:22	WG1234600
Chloroform	U		0.0860	0.500	1	02/08/2019 17:22	WG1234600
Chloromethane	U		0.153	1.25	1	02/08/2019 17:22	WG1234600
2-Chlorotoluene	U		0.111	0.500	1	02/08/2019 17:22	WG1234600
4-Chlorotoluene	U		0.0972	0.500	1	02/08/2019 17:22	WG1234600
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/08/2019 17:22	WG1234600
1,2-Dibromoethane	U		0.193	0.500	1	02/08/2019 17:22	WG1234600
Dibromomethane	U		0.117	0.500	1	02/08/2019 17:22	WG1234600
1,2-Dichlorobenzene	U		0.101	0.500	1	02/08/2019 17:22	WG1234600
1,3-Dichlorobenzene	U		0.130	0.500	1	02/08/2019 17:22	WG1234600
1,4-Dichlorobenzene	U		0.121	0.500	1	02/08/2019 17:22	WG1234600
Dichlorodifluoromethane	U		0.127	2.50	1	02/08/2019 17:22	WG1234600
1,1-Dichloroethane	0.141	J	0.114	0.500	1	02/08/2019 17:22	WG1234600
1,2-Dichloroethane	U		0.108	0.500	1	02/08/2019 17:22	WG1234600
1,1-Dichloroethene	9.92		0.188	0.500	1	02/08/2019 17:22	WG1234600
cis-1,2-Dichloroethene	6990		23.3	125	250	02/12/2019 14:16	WG1235840
trans-1,2-Dichloroethene	25.7		0.152	0.500	1	02/08/2019 17:22	WG1234600
1,2-Dichloropropane	U		0.190	0.500	1	02/08/2019 17:22	WG1234600
1,1-Dichloropropene	U		0.128	0.500	1	02/08/2019 17:22	WG1234600
1,3-Dichloropropane	U		0.147	1.00	1	02/08/2019 17:22	WG1234600
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/08/2019 17:22	WG1234600
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/08/2019 17:22	WG1234600
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/08/2019 17:22	WG1234600
2,2-Dichloropropane	U		0.0929	0.500	1	02/08/2019 17:22	WG1234600
Di-isopropyl ether	U		0.0924	0.500	1	02/08/2019 17:22	WG1234600
Ethylbenzene	U		0.158	0.500	1	02/08/2019 17:22	WG1234600
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/08/2019 17:22	WG1234600
2-Hexanone	U		0.757	5.00	1	02/08/2019 17:22	WG1234600
n-Hexane	U		0.305	5.00	1	02/08/2019 17:22	WG1234600
Iodomethane	U	J3	0.377	10.0	1	02/08/2019 17:22	WG1234600
Isopropylbenzene	U		0.126	0.500	1	02/08/2019 17:22	WG1234600
p-Isopropyltoluene	U		0.138	0.500	1	02/08/2019 17:22	WG1234600
2-Butanone (MEK)	U		1.28	5.00	1	02/08/2019 17:22	WG1234600
Methylene Chloride	U		1.07	2.50	1	02/08/2019 17:22	WG1234600
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/08/2019 17:22	WG1234600
Methyl tert-butyl ether	U		0.102	0.500	1	02/08/2019 17:22	WG1234600
Naphthalene	U		0.174	2.50	1	02/08/2019 17:22	WG1234600
n-Propylbenzene	U		0.162	0.500	1	02/08/2019 17:22	WG1234600
Styrene	U		0.117	0.500	1	02/08/2019 17:22	WG1234600
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/08/2019 17:22	WG1234600
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/08/2019 17:22	WG1234600
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/08/2019 17:22	WG1234600
Tetrachloroethene	U		0.199	0.500	1	02/08/2019 17:22	WG1234600
Toluene	U		0.412	0.500	1	02/08/2019 17:22	WG1234600
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/08/2019 17:22	WG1234600
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/08/2019 17:22	WG1234600
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/08/2019 17:22	WG1234600
1,1,2-Trichloroethane	U		0.186	0.500	1	02/08/2019 17:22	WG1234600
Trichloroethene	1.77		0.153	0.500	1	02/08/2019 17:22	WG1234600
Trichlorofluoromethane	U		0.130	2.50	1	02/08/2019 17:22	WG1234600
1,2,3-Trichloropropane	U		0.247	2.50	1	02/08/2019 17:22	WG1234600
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/08/2019 17:22	WG1234600
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/08/2019 17:22	WG1234600
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/08/2019 17:22	WG1234600

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
Vinyl acetate	U		0.645	5.00	1	02/08/2019 17:22	WG1234600
Vinyl chloride	46.0		0.118	0.500	1	02/08/2019 17:22	WG1234600
Xylenes, Total	U		0.316	1.50	1	02/08/2019 17:22	WG1234600
(S) Toluene-d8	108			80.0-120		02/08/2019 17:22	WG1234600
(S) Toluene-d8	99.8			80.0-120		02/12/2019 14:16	WG1235840
(S) 4-Bromofluorobenzene	112			77.0-126		02/08/2019 17:22	WG1234600
(S) 4-Bromofluorobenzene	103			77.0-126		02/12/2019 14:16	WG1235840
(S) 1,2-Dichloroethane-d4	103			70.0-130		02/08/2019 17:22	WG1234600
(S) 1,2-Dichloroethane-d4	106			70.0-130		02/12/2019 14:16	WG1235840

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	
Acetone	U	J3	1.05	25.0	1	02/08/2019 16:02	WG1234600
Acrylonitrile	U		0.873	5.00	1	02/08/2019 16:02	WG1234600
Benzene	U		0.0896	0.500	1	02/08/2019 16:02	WG1234600
Bromobenzene	U		0.133	0.500	1	02/08/2019 16:02	WG1234600
Bromodichloromethane	U		0.0800	0.500	1	02/08/2019 16:02	WG1234600
Bromochloromethane	U		0.145	0.500	1	02/08/2019 16:02	WG1234600
Bromoform	U		0.186	0.500	1	02/08/2019 16:02	WG1234600
Bromomethane	U		0.157	2.50	1	02/08/2019 16:02	WG1234600
n-Butylbenzene	U		0.143	0.500	1	02/08/2019 16:02	WG1234600
sec-Butylbenzene	U		0.134	0.500	1	02/08/2019 16:02	WG1234600
tert-Butylbenzene	U		0.183	0.500	1	02/08/2019 16:02	WG1234600
Carbon disulfide	U		0.101	0.500	1	02/08/2019 16:02	WG1234600
Carbon tetrachloride	U		0.159	0.500	1	02/08/2019 16:02	WG1234600
Chlorobenzene	U		0.140	0.500	1	02/08/2019 16:02	WG1234600
Chlorodibromomethane	U		0.128	0.500	1	02/08/2019 16:02	WG1234600
Chloroethane	U		0.141	2.50	1	02/08/2019 16:02	WG1234600
Chloroform	U		0.0860	0.500	1	02/08/2019 16:02	WG1234600
Chloromethane	U		0.153	1.25	1	02/08/2019 16:02	WG1234600
2-Chlorotoluene	U		0.111	0.500	1	02/08/2019 16:02	WG1234600
4-Chlorotoluene	U		0.0972	0.500	1	02/08/2019 16:02	WG1234600
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/08/2019 16:02	WG1234600
1,2-Dibromoethane	U		0.193	0.500	1	02/08/2019 16:02	WG1234600
Dibromomethane	U		0.117	0.500	1	02/08/2019 16:02	WG1234600
1,2-Dichlorobenzene	U		0.101	0.500	1	02/08/2019 16:02	WG1234600
1,3-Dichlorobenzene	U		0.130	0.500	1	02/08/2019 16:02	WG1234600
1,4-Dichlorobenzene	U		0.121	0.500	1	02/08/2019 16:02	WG1234600
Dichlorodifluoromethane	U		0.127	2.50	1	02/08/2019 16:02	WG1234600
1,1-Dichloroethane	U		0.114	0.500	1	02/08/2019 16:02	WG1234600
1,2-Dichloroethane	U		0.108	0.500	1	02/08/2019 16:02	WG1234600
1,1-Dichloroethene	U		0.188	0.500	1	02/08/2019 16:02	WG1234600
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/08/2019 16:02	WG1234600
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/08/2019 16:02	WG1234600
1,2-Dichloropropane	U		0.190	0.500	1	02/08/2019 16:02	WG1234600
1,1-Dichloropropene	U		0.128	0.500	1	02/08/2019 16:02	WG1234600
1,3-Dichloropropane	U		0.147	1.00	1	02/08/2019 16:02	WG1234600
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/08/2019 16:02	WG1234600
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/08/2019 16:02	WG1234600
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/08/2019 16:02	WG1234600
2,2-Dichloropropane	U		0.0929	0.500	1	02/08/2019 16:02	WG1234600
Di-isopropyl ether	U		0.0924	0.500	1	02/08/2019 16:02	WG1234600
Ethylbenzene	U		0.158	0.500	1	02/08/2019 16:02	WG1234600
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/08/2019 16:02	WG1234600
2-Hexanone	U		0.757	5.00	1	02/08/2019 16:02	WG1234600
n-Hexane	U		0.305	5.00	1	02/08/2019 16:02	WG1234600
Iodomethane	U	J3	0.377	10.0	1	02/08/2019 16:02	WG1234600
Isopropylbenzene	U		0.126	0.500	1	02/08/2019 16:02	WG1234600
p-Isopropyltoluene	U		0.138	0.500	1	02/08/2019 16:02	WG1234600
2-Butanone (MEK)	U		1.28	5.00	1	02/08/2019 16:02	WG1234600
Methylene Chloride	U		1.07	2.50	1	02/08/2019 16:02	WG1234600
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/08/2019 16:02	WG1234600
Methyl tert-butyl ether	U		0.102	0.500	1	02/08/2019 16:02	WG1234600
Naphthalene	U		0.174	2.50	1	02/08/2019 16:02	WG1234600
n-Propylbenzene	U		0.162	0.500	1	02/08/2019 16:02	WG1234600
Styrene	U		0.117	0.500	1	02/08/2019 16:02	WG1234600
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/08/2019 16:02	WG1234600
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/08/2019 16:02	WG1234600

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/07/19 00:00

L1068057

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	02/08/2019 16:02	WG1234600
Tetrachloroethene	U		0.199	0.500	1	02/08/2019 16:02	WG1234600
Toluene	U		0.412	0.500	1	02/08/2019 16:02	WG1234600
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/08/2019 16:02	WG1234600
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/08/2019 16:02	WG1234600
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/08/2019 16:02	WG1234600
1,1,2-Trichloroethane	U		0.186	0.500	1	02/08/2019 16:02	WG1234600
Trichloroethene	U		0.153	0.500	1	02/08/2019 16:02	WG1234600
Trichlorofluoromethane	U		0.130	2.50	1	02/08/2019 16:02	WG1234600
1,2,3-Trichloropropane	U		0.247	2.50	1	02/08/2019 16:02	WG1234600
1,2,4-Trimethylbenzene	0.341	J	0.123	0.500	1	02/08/2019 16:02	WG1234600
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/08/2019 16:02	WG1234600
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/08/2019 16:02	WG1234600
Vinyl acetate	U		0.645	5.00	1	02/08/2019 16:02	WG1234600
Vinyl chloride	U		0.118	0.500	1	02/08/2019 16:02	WG1234600
Xylenes, Total	U		0.316	1.50	1	02/08/2019 16:02	WG1234600
(S) Toluene-d8	103			80.0-120		02/08/2019 16:02	WG1234600
(S) 4-Bromofluorobenzene	103			77.0-126		02/08/2019 16:02	WG1234600
(S) 1,2-Dichloroethane-d4	104			70.0-130		02/08/2019 16:02	WG1234600

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3383162-1 02/12/19 13:46

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Alkalinity	U		2710	20000

Sample Narrative:
BLANK: Endpoint pH 4.5

L1067611-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1067611-01 02/12/19 14:00 • (DUP) R3383162-3 02/12/19 14:08

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	156000	152000	1	2.51		20

Sample Narrative:
OS: Endpoint pH 4.5 HEADSPACE
DUP: Endpoint pH 4.5

L1067858-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1067858-05 02/12/19 16:27 • (DUP) R3383162-6 02/12/19 16:34

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	16400	15900	1	3.07	J	20

Sample Narrative:
OS: Endpoint pH 4.5 HEADSPACE
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3383162-5 02/12/19 15:09

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Alkalinity	100000	102000	102	85.0-115	

Sample Narrative:
LCS: Endpoint pH 4.5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3382406-1 02/08/19 11:47

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Chloride	U		51.9	1000
Nitrate	U		22.7	100
Sulfate	U		77.4	5000

L1067504-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1067504-01 02/08/19 17:55 • (DUP) R3382406-3 02/08/19 18:10

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	11800	11700	1	0.293		15
Nitrate	483	479	1	0.790		15
Sulfate	26200	26100	1	0.243		15

L1068137-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1068137-04 02/08/19 20:45 • (DUP) R3382406-6 02/08/19 21:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	107000	107000	1	0.0864	E	15
Nitrate	U	0.000	1	0.000		15
Sulfate	U	0.000	1	0.000		15

L1068137-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1068137-04 02/08/19 21:31 • (DUP) R3382406-8 02/08/19 21:46

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	105000	105000	5	0.0593		15

Laboratory Control Sample (LCS)

(LCS) R3382406-2 02/08/19 12:03

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Chloride	40000	40700	102	80.0-120	
Nitrate	8000	8280	103	80.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Laboratory Control Sample (LCS)

(LCS) R3382406-2 02/08/19 12:03

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Sulfate	40000	41500	104	80.0-120	

L1067504-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1067504-01 02/08/19 17:55 • (MS) R3382406-4 02/08/19 18:26 • (MSD) R3382406-5 02/08/19 18:41

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Chloride	50000	11800	62100	62300	101	101	1	80.0-120			0.225	15
Nitrate	5000	483	5640	5640	103	103	1	80.0-120			0.0816	15
Sulfate	50000	26200	75800	75900	99.1	99.4	1	80.0-120			0.160	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3382603-1 02/08/19 11:26

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	133	⬇	102	1000

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1067611-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1067611-01 02/08/19 13:03 • (DUP) R3382603-5 02/08/19 13:17

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	9050	8890	1	1.81		20

L1067623-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1067623-06 02/08/19 16:04 • (DUP) R3382603-6 02/08/19 16:17

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	2960	3000	1	1.44		20

Laboratory Control Sample (LCS)

(LCS) R3382603-2 02/08/19 11:59

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	75000	79700	106	85.0-115	

L1067140-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1067140-01 02/08/19 12:12 • (MS) R3382603-3 02/08/19 12:30 • (MSD) R3382603-4 02/08/19 12:47

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	50000	5660	57000	57200	103	103	1	80.0-120			0.420	20

L1067639-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1067639-01 02/08/19 16:31 • (MS) R3382603-7 02/08/19 16:48 • (MSD) R3382603-8 02/08/19 17:05

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	50000	3470	53200	53400	99.4	99.9	1	80.0-120			0.507	20

Method Blank (MB)

(MB) R3383768-1 02/14/19 10:57

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Iron	28.3	J	15.0	100
Manganese	U		0.250	5.00

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) R3383768-2 02/14/19 11:01 • (LCSD) R3383768-3 02/14/19 11:06

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Iron	5000	4980	4990	99.6	99.8	80.0-120			0.163	20
Manganese	50.0	50.4	49.8	101	99.6	80.0-120			1.16	20

L1068057-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1068057-01 02/14/19 11:10 • (MS) R3383768-5 02/14/19 11:19 • (MSD) R3383768-6 02/14/19 11:24

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Iron	5000	6110	11200	11500	103	108	1	75.0-125			2.24	20
Manganese	50.0	659	704	705	90.9	91.8	1	75.0-125			0.0618	20



Method Blank (MB)

(MB) R3382540-3 02/08/19 14:01

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	47.3	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	85.7			78.0-120

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) R3382540-2 02/08/19 13:14 • (LCSD) R3382540-1 02/08/19 11:54

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	4870	4800	88.5	87.3	70.0-124			1.34	20
(S) a,a,a-Trifluorotoluene(FID)				90.3	90.3	78.0-120				



Method Blank (MB)

(MB) R3383016-1 02/12/19 10:51

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

L1067114-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1067114-01 02/12/19 10:53 • (DUP) R3383016-2 02/12/19 12:57

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	ND	0.000	1	0.000		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20

L1068065-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1068065-01 02/12/19 13:03 • (DUP) R3383016-3 02/12/19 13:46

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	ND	0.000	1	0.000		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20

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

(LCS) R3383016-4 02/12/19 13:48 • (LCSD) R3383016-5 02/12/19 13:52

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 %
Methane	67.8	73.9	75.6	109	111	85.0-115			2.24	20
Ethane	129	112	118	86.6	91.2	85.0-115			5.23	20
Ethene	127	109	117	85.5	91.9	85.0-115			7.26	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3382985-3 02/08/19 09:37

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
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
n-Hexane	U		0.305	5.00

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3382985-3 02/08/19 09:37

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Di-isopropyl ether	U		0.0924	0.500
Iodomethane	U		0.377	10.0
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	0.233	U	0.157	1.00
2-Hexanone	U		0.757	5.00
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
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
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
Toluene	U		0.412	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	102			80.0-120
(S) 4-Bromofluorobenzene	105			77.0-126
(S) 1,2-Dichloroethane-d4	101			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R3382985-1 02/08/19 08:36 • (LCSD) R3382985-2 02/08/19 08:57

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	115	164	91.8	131	19.0-160		J3	35.4	27
Acrylonitrile	125	109	124	87.2	99.5	55.0-149			13.2	20
Bromobenzene	25.0	22.3	21.8	89.3	87.3	73.0-121			2.25	20
Bromodichloromethane	25.0	22.5	22.9	90.2	91.7	75.0-120			1.69	20
Bromochloromethane	25.0	22.8	23.4	91.4	93.8	76.0-122			2.63	20
Bromoform	25.0	23.7	24.3	95.0	97.0	68.0-132			2.19	20
Bromomethane	25.0	25.8	25.6	103	102	10.0-160			0.542	25
trans-1,4-Dichloro-2-butene	25.0	27.8	26.7	111	107	33.0-144			3.78	20
Benzene	25.0	22.6	23.2	90.5	92.6	70.0-123			2.28	20
n-Butylbenzene	25.0	24.2	24.7	96.8	98.8	73.0-125			2.05	20
sec-Butylbenzene	25.0	23.0	23.3	92.2	93.1	75.0-125			1.02	20
tert-Butylbenzene	25.0	22.2	22.5	88.7	90.0	76.0-124			1.53	20
Carbon disulfide	25.0	22.2	23.0	88.8	91.9	61.0-128			3.41	20
Carbon tetrachloride	25.0	21.1	22.8	84.3	91.1	68.0-126			7.83	20
Chlorobenzene	25.0	23.1	23.4	92.6	93.6	80.0-121			1.06	20
n-Hexane	25.0	23.9	24.7	95.5	98.7	57.0-133			3.31	20
Chlorodibromomethane	25.0	22.8	23.2	91.1	92.8	77.0-125			1.83	20
Iodomethane	125	111	52.0	88.7	41.6	33.0-147		J3	72.3	26
Chloroethane	25.0	26.5	26.9	106	108	47.0-150			1.82	20
Chloroform	25.0	22.8	23.1	91.2	92.5	73.0-120			1.44	20
Chloromethane	25.0	32.6	31.3	130	125	41.0-142			4.12	20
2-Chlorotoluene	25.0	22.0	21.5	87.9	86.0	76.0-123			2.08	20
4-Chlorotoluene	25.0	22.1	22.3	88.6	89.4	75.0-122			0.856	20
1,2-Dibromo-3-Chloropropane	25.0	21.9	24.0	87.7	96.0	58.0-134			9.04	20
1,2-Dibromoethane	25.0	22.4	22.8	89.8	91.2	80.0-122			1.57	20
Dibromomethane	25.0	23.4	24.3	93.5	97.3	80.0-120			3.97	20
1,2-Dichlorobenzene	25.0	23.7	24.8	94.9	99.0	79.0-121			4.22	20
1,3-Dichlorobenzene	25.0	23.8	24.0	95.3	96.0	79.0-120			0.655	20
1,4-Dichlorobenzene	25.0	22.8	23.3	91.1	93.3	79.0-120			2.35	20
Dichlorodifluoromethane	25.0	27.9	28.4	111	114	51.0-149			2.00	20
1,1-Dichloroethane	25.0	22.0	22.3	88.2	89.3	70.0-126			1.35	20
1,2-Dichloroethane	25.0	22.8	23.3	91.1	93.1	70.0-128			2.14	20
1,1-Dichloroethene	25.0	22.2	23.3	88.7	93.4	71.0-124			5.14	20
cis-1,2-Dichloroethene	25.0	22.7	23.2	90.7	92.7	73.0-120			2.16	20
trans-1,2-Dichloroethene	25.0	21.2	21.7	84.8	86.6	73.0-120			2.13	20
1,2-Dichloropropane	25.0	23.1	23.0	92.4	92.2	77.0-125			0.279	20
1,1-Dichloropropene	25.0	23.3	23.4	93.1	93.4	74.0-126			0.287	20
1,3-Dichloropropane	25.0	23.1	22.8	92.4	91.1	80.0-120			1.45	20
cis-1,3-Dichloropropene	25.0	23.6	23.8	94.2	95.3	80.0-123			1.19	20
trans-1,3-Dichloropropene	25.0	24.0	23.8	96.1	95.1	78.0-124			1.04	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



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

(LCS) R3382985-1 02/08/19 08:36 • (LCSD) R3382985-2 02/08/19 08:57

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 %
2,2-Dichloropropane	25.0	21.1	21.3	84.3	85.0	58.0-130			0.839	20
Hexachloro-1,3-butadiene	25.0	23.6	25.7	94.5	103	54.0-138			8.30	20
2-Hexanone	125	112	115	89.7	91.7	67.0-149			2.17	20
Di-isopropyl ether	25.0	24.1	24.1	96.4	96.5	58.0-138			0.0251	20
Ethylbenzene	25.0	22.3	22.5	89.4	89.9	79.0-123			0.606	20
Isopropylbenzene	25.0	23.4	24.3	93.6	97.3	76.0-127			3.97	20
p-Isopropyltoluene	25.0	23.3	24.1	93.3	96.5	76.0-125			3.40	20
2-Butanone (MEK)	125	114	131	91.6	104	44.0-160			13.2	20
Methylene Chloride	25.0	22.2	22.7	88.7	90.7	67.0-120			2.29	20
4-Methyl-2-pentanone (MIBK)	125	118	121	94.1	96.5	68.0-142			2.48	20
Methyl tert-butyl ether	25.0	22.9	23.6	91.6	94.3	68.0-125			2.99	20
Naphthalene	25.0	22.7	25.3	90.9	101	54.0-135			10.6	20
Styrene	25.0	23.8	24.4	95.1	97.7	73.0-130			2.72	20
1,1,1,2-Tetrachloroethane	25.0	23.1	23.3	92.2	93.3	75.0-125			1.20	20
1,1,2,2-Tetrachloroethane	25.0	23.8	23.2	95.3	92.7	65.0-130			2.78	20
n-Propylbenzene	25.0	22.3	22.1	89.3	88.3	77.0-124			1.23	20
Tetrachloroethene	25.0	22.5	22.9	90.0	91.8	72.0-132			1.90	20
1,2,3-Trichlorobenzene	25.0	24.1	26.4	96.6	106	50.0-138			8.87	20
1,2,4-Trichlorobenzene	25.0	24.9	27.8	99.7	111	57.0-137			11.0	20
1,1,1-Trichloroethane	25.0	22.1	22.9	88.6	91.6	73.0-124			3.31	20
1,1,2-Trichlorotrifluoroethane	25.0	23.4	23.9	93.7	95.5	69.0-132			1.87	20
Toluene	25.0	21.9	21.9	87.4	87.7	79.0-120			0.366	20
1,1,2-Trichloroethane	25.0	23.6	23.5	94.5	94.0	80.0-120			0.533	20
Trichloroethene	25.0	21.4	22.1	85.7	88.3	78.0-124			2.94	20
Trichlorofluoromethane	25.0	26.0	26.6	104	106	59.0-147			2.10	20
1,2,3-Trichloropropane	25.0	21.8	21.6	87.2	86.5	73.0-130			0.784	20
1,2,3-Trimethylbenzene	25.0	22.7	23.5	90.7	94.0	77.0-120			3.50	20
1,2,4-Trimethylbenzene	25.0	23.2	23.8	93.0	95.3	76.0-121			2.43	20
1,3,5-Trimethylbenzene	25.0	22.9	22.8	91.8	91.0	76.0-122			0.776	20
Vinyl acetate	125	143	142	115	113	11.0-160			1.12	20
Vinyl chloride	25.0	24.5	24.8	98.0	99.2	67.0-131			1.25	20
Xylenes, Total	75.0	68.3	70.5	91.1	94.0	79.0-123			3.17	20
(S) Toluene-d8				99.1	97.5	80.0-120				
(S) 4-Bromofluorobenzene				104	103	77.0-126				
(S) 1,2-Dichloroethane-d4				100	101	70.0-130				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3383444-3 02/12/19 13:36

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0933	0.500
(S) Toluene-d8	99.7			80.0-120
(S) 4-Bromofluorobenzene	100			77.0-126
(S) 1,2-Dichloroethane-d4	106			70.0-130

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

(LCS) R3383444-1 02/12/19 12:36 • (LCSD) R3383444-2 02/12/19 12:56

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 %
cis-1,2-Dichloroethene	25.0	24.2	24.1	96.7	96.6	73.0-120			0.103	20
(S) Toluene-d8				94.6	95.5	80.0-120				
(S) 4-Bromofluorobenzene				100	99.4	77.0-126				
(S) 1,2-Dichloroethane-d4				109	110	70.0-130				

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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
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, the sample preparation volume or weight values differ from the standard, 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.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
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
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
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.

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



Pace National 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.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

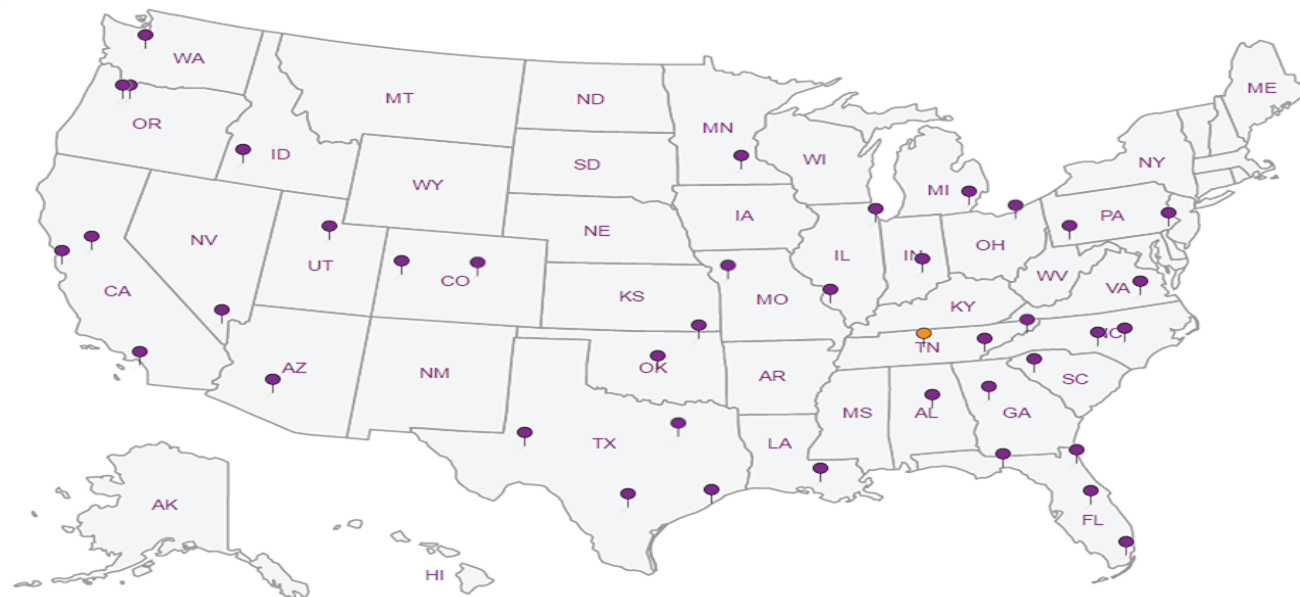
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National 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. Pace National performs all testing at our central laboratory.



PES Environmental, Inc.- WA

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Report to:
Brian O'Neal/Bill Haldeman

Project
Description: American Linen

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

Collected by (print):
Ben Hecht

Collected by (signature):
[Signature]

Immediately
Packed on Ice: N ☒ Y ☒

Billing Information:

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

Email To: boneal@pesenv.com;
bhaldeman@pesenv.com;

City/State
Collected: Seattle, WA

Lab Project #
PESENVSWA-ALP

P.O. #

Quote #

Date Results Needed

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page ____ of ____



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



L# 1068051

B045

Accnum: PESENVSWA

Template: T143845

Prelogin: P692867

TSR: 110 - Brian Ford

PB:

Shipped Via: FedEx Ground

Remarks Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	* NO3, SO4, Cl* 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM (RSK175LL) 40mlAmb-HCl	NWTPHGX 40mlAmb-HCl	TOC 250mlAmb-HCl	Total Fe Mn 6020 250mlHDPE-HNO3	VOCs (8260LLC) 40mlAmb-HCl
MW113-020719	Grab	GW	75'	2-7-19	1040	12	X	X	X	X	X	X	X
Trip Blank-020719	-	GW	-	2-7-19	-	1							X
		GW											
		GW											
		GW											
		GW											
		GW											
		GW											
		GW											
		GW											
		GW											
		GW											

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

Remarks:

Samples returned via:

UPS FedEx Courier

pH Temp

Flow Other

Tracking # 41361 6932 0486

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes/No

Yes/No

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received:

0.3-0.2-0.1-0.3 12

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: Time:

2/8/19 845

Hold:

Condition:

NCF 1 OK

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
RAD SCREEN: <0.5 mR/hr

If preservation required by Login: Date/Time

February 15, 2019

PES Environmental, Inc.- WA

Sample Delivery Group: L1068436
Samples Received: 02/08/2019
Project Number: 1413.001.05.501
Description: American Linen

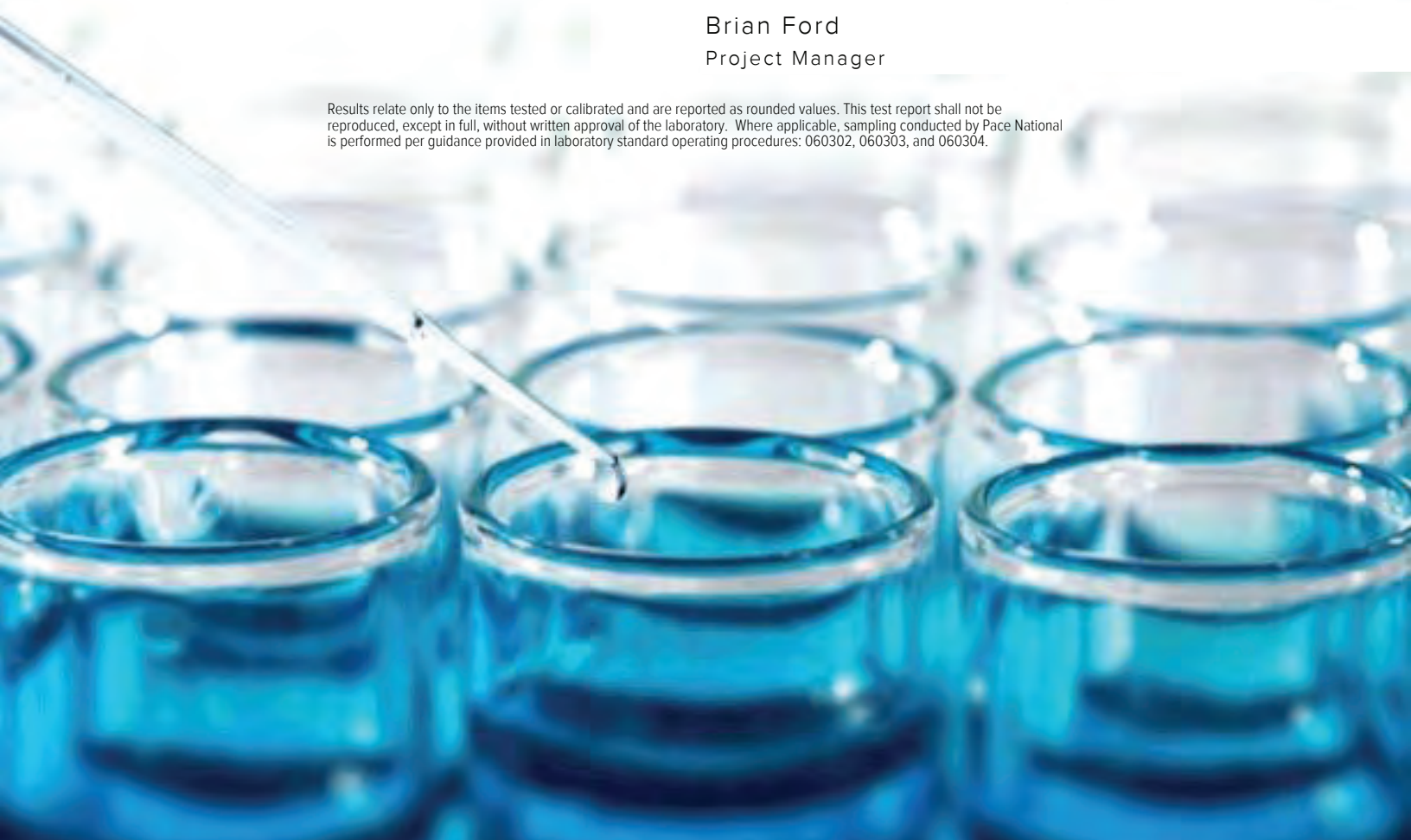
Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford
Project Manager

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 Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.





Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Sr: Sample Results	6
A9C9-15 L1068436-01	6
A9C9-20 L1068436-02	8
A9C9-25 L1068436-03	10
A9C9-32 L1068436-04	12
A9C9-35 L1068436-05	14
A9C9-40 L1068436-06	16
A9C9-45 L1068436-07	18
A9C9-50 L1068436-08	20
B-931-50 L1068436-09	22
TB-020719 L1068436-10	24
Qc: Quality Control Summary	26
Total Solids by Method 2540 G-2011	26
Volatile Organic Compounds (GC/MS) by Method 8260C	28
Gl: Glossary of Terms	40
Al: Accreditations & Locations	41
Sc: Sample Chain of Custody	42



SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



A9C9-15 L1068436-01 Solid

Collected by Rachel McLaughlin
Collected date/time 02/07/19 08:50
Received date/time 02/08/19 17:50

¹ Cp

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1235875	1	02/12/19 18:03	02/12/19 18:13	KBC
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235014	1	02/09/19 22:59	02/10/19 11:51	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235339	1	02/09/19 22:59	02/13/19 14:33	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1237248	1	02/09/19 22:59	02/14/19 16:11	ACG

² Tc

³ Ss

⁴ Cn

A9C9-20 L1068436-02 Solid

Collected by Rachel McLaughlin
Collected date/time 02/07/19 08:55
Received date/time 02/08/19 17:50

⁵ Sr

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1235875	1	02/12/19 18:03	02/12/19 18:13	KBC
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235014	1	02/09/19 22:59	02/10/19 12:10	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235339	1	02/09/19 22:59	02/13/19 14:55	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1237248	1	02/09/19 22:59	02/14/19 16:35	ACG

⁶ Qc

⁷ Gl

⁸ Al

A9C9-25 L1068436-03 Solid

Collected by Rachel McLaughlin
Collected date/time 02/07/19 09:00
Received date/time 02/08/19 17:50

⁹ Sc

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1235875	1	02/12/19 18:03	02/12/19 18:13	KBC
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235014	1	02/09/19 22:59	02/10/19 12:29	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235339	1	02/09/19 22:59	02/13/19 15:17	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1237248	1	02/09/19 22:59	02/14/19 16:59	ACG

A9C9-32 L1068436-04 Solid

Collected by Rachel McLaughlin
Collected date/time 02/07/19 09:05
Received date/time 02/08/19 17:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1235876	1	02/12/19 17:48	02/12/19 18:01	KBC
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235014	1	02/09/19 22:59	02/10/19 12:47	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235339	10	02/09/19 22:59	02/13/19 17:31	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1237248	10	02/09/19 22:59	02/14/19 19:24	ACG

A9C9-35 L1068436-05 Solid

Collected by Rachel McLaughlin
Collected date/time 02/07/19 09:07
Received date/time 02/08/19 17:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1235876	1	02/12/19 17:48	02/12/19 18:01	KBC
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235014	1	02/09/19 22:59	02/10/19 13:06	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235339	1	02/09/19 22:59	02/13/19 15:40	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1237248	1	02/09/19 22:59	02/14/19 17:23	ACG

A9C9-40 L1068436-06 Solid

Collected by Rachel McLaughlin
Collected date/time 02/07/19 09:10
Received date/time 02/08/19 17:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1235876	1	02/12/19 17:48	02/12/19 18:01	KBC
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235014	1	02/09/19 22:59	02/10/19 13:25	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235339	1	02/09/19 22:59	02/13/19 16:02	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1237248	1	02/09/19 22:59	02/14/19 17:48	ACG

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

1413.001.05.501

SDG:

L1068436

DATE/TIME:

02/15/19 16:21

PAGE:

3 of 42

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



A9C9-45 L1068436-07 Solid

Collected by Rachel McLaughlin
Collected date/time 02/07/19 10:50
Received date/time 02/08/19 17:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1235876	1	02/12/19 17:48	02/12/19 18:01	KBC
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235014	1	02/09/19 22:59	02/10/19 13:43	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235339	1	02/09/19 22:59	02/13/19 16:24	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1237248	1	02/09/19 22:59	02/14/19 18:12	ACG

¹ Cp

² Tc

³ Ss

⁴ Cn

A9C9-50 L1068436-08 Solid

Collected by Rachel McLaughlin
Collected date/time 02/07/19 10:52
Received date/time 02/08/19 17:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1235876	1	02/12/19 17:48	02/12/19 18:01	KBC
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235014	1	02/09/19 22:59	02/10/19 14:02	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235339	1	02/09/19 22:59	02/13/19 16:47	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1237248	1	02/09/19 22:59	02/14/19 18:36	ACG

⁵ Sr

⁶ Qc

⁷ Gl

B-931-50 L1068436-09 Solid

Collected by Rachel McLaughlin
Collected date/time 02/07/19 13:00
Received date/time 02/08/19 17:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1235876	1	02/12/19 17:48	02/12/19 18:01	KBC
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235014	1	02/09/19 22:59	02/10/19 14:21	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1235339	1	02/09/19 22:59	02/13/19 17:09	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1237248	1	02/09/19 22:59	02/14/19 19:00	ACG

⁸ Al

⁹ Sc

TB-020719 L1068436-10 GW

Collected by Rachel McLaughlin
Collected date/time 02/07/19 09:35
Received date/time 02/08/19 17:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1234855	1	02/10/19 01:35	02/10/19 01:35	JHH



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, 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
Project Manager

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	85.7		1	02/12/2019 18:13	WG1235875

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0696	JO	0.0160	0.0292	1	02/14/2019 16:11	WG1237248
Acrylonitrile	U		0.00222	0.0146	1	02/10/2019 11:51	WG1235014
Benzene	0.00166		0.000467	0.00117	1	02/10/2019 11:51	WG1235014
Bromobenzene	U		0.00123	0.0146	1	02/10/2019 11:51	WG1235014
Bromodichloromethane	U		0.000920	0.00292	1	02/10/2019 11:51	WG1235014
Bromochloromethane	U		0.00132	0.00583	1	02/10/2019 11:51	WG1235014
Bromoform	U		0.00698	0.0292	1	02/10/2019 11:51	WG1235014
Bromomethane	U		0.00432	0.0146	1	02/10/2019 11:51	WG1235014
n-Butylbenzene	U		0.00448	0.0146	1	02/10/2019 11:51	WG1235014
sec-Butylbenzene	U		0.00295	0.0146	1	02/10/2019 11:51	WG1235014
tert-Butylbenzene	U		0.00181	0.00583	1	02/10/2019 11:51	WG1235014
Carbon disulfide	U		0.00474	0.0146	1	02/10/2019 11:51	WG1235014
Carbon tetrachloride	U		0.00126	0.00583	1	02/10/2019 11:51	WG1235014
Chlorobenzene	U		0.000669	0.00292	1	02/10/2019 11:51	WG1235014
Chlorodibromomethane	U		0.000525	0.00292	1	02/10/2019 11:51	WG1235014
Chloroethane	U		0.00126	0.00583	1	02/10/2019 11:51	WG1235014
Chloroform	U		0.000484	0.00292	1	02/10/2019 11:51	WG1235014
Chloromethane	U		0.00162	0.0146	1	02/10/2019 11:51	WG1235014
2-Chlorotoluene	U		0.00107	0.00292	1	02/10/2019 11:51	WG1235014
4-Chlorotoluene	U		0.00132	0.00583	1	02/10/2019 11:51	WG1235014
1,2-Dibromo-3-Chloropropane	U		0.00595	0.0292	1	02/10/2019 11:51	WG1235014
1,2-Dibromoethane	U		0.000613	0.00292	1	02/10/2019 11:51	WG1235014
Dibromomethane	U		0.00117	0.00583	1	02/10/2019 11:51	WG1235014
1,2-Dichlorobenzene	U		0.00169	0.00583	1	02/10/2019 11:51	WG1235014
1,3-Dichlorobenzene	U		0.00198	0.00583	1	02/10/2019 11:51	WG1235014
1,4-Dichlorobenzene	U		0.00230	0.00583	1	02/10/2019 11:51	WG1235014
Dichlorodifluoromethane	U		0.000955	0.00292	1	02/10/2019 11:51	WG1235014
1,1-Dichloroethane	U		0.000671	0.00292	1	02/10/2019 11:51	WG1235014
1,2-Dichloroethane	U		0.000554	0.00292	1	02/13/2019 14:33	WG1235339
1,1-Dichloroethene	U		0.000583	0.00292	1	02/10/2019 11:51	WG1235014
cis-1,2-Dichloroethene	0.0243		0.000805	0.00292	1	02/10/2019 11:51	WG1235014
trans-1,2-Dichloroethene	U		0.00167	0.00583	1	02/10/2019 11:51	WG1235014
1,2-Dichloropropane	U		0.00148	0.00583	1	02/13/2019 14:33	WG1235339
1,1-Dichloropropene	U		0.000817	0.00292	1	02/10/2019 11:51	WG1235014
1,3-Dichloropropane	U		0.00204	0.00583	1	02/10/2019 11:51	WG1235014
cis-1,3-Dichloropropene	U		0.000791	0.00292	1	02/10/2019 11:51	WG1235014
trans-1,3-Dichloropropene	U		0.00179	0.00583	1	02/10/2019 11:51	WG1235014
trans-1,4-Dichloro-2-butene	U		0.00163	0.00583	1	02/10/2019 11:51	WG1235014
2,2-Dichloropropane	U		0.000925	0.00292	1	02/10/2019 11:51	WG1235014
Di-isopropyl ether	U		0.000408	0.00117	1	02/10/2019 11:51	WG1235014
Ethylbenzene	U		0.000618	0.00292	1	02/10/2019 11:51	WG1235014
Hexachloro-1,3-butadiene	U		0.0148	0.0292	1	02/10/2019 11:51	WG1235014
2-Hexanone	U		0.0117	0.0292	1	02/10/2019 11:51	WG1235014
n-Hexane	U		0.00124	0.00583	1	02/10/2019 11:51	WG1235014
Iodomethane	U		0.00706	0.0146	1	02/10/2019 11:51	WG1235014
Isopropylbenzene	U		0.00101	0.00292	1	02/10/2019 11:51	WG1235014
p-Isopropyltoluene	U		0.00272	0.00583	1	02/10/2019 11:51	WG1235014
2-Butanone (MEK)	0.0149	J	0.0146	0.0292	1	02/10/2019 11:51	WG1235014
Methylene Chloride	U		0.00775	0.0292	1	02/10/2019 11:51	WG1235014
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0292	1	02/10/2019 11:51	WG1235014





Collected date/time: 02/07/19 08:50

L1068436

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000344	0.00117	1	02/10/2019 11:51	WG1235014
Naphthalene	U		0.00364	0.0146	1	02/10/2019 11:51	WG1235014
n-Propylbenzene	U		0.00138	0.00583	1	02/10/2019 11:51	WG1235014
Styrene	U		0.00319	0.0146	1	02/10/2019 11:51	WG1235014
1,1,1,2-Tetrachloroethane	U		0.000583	0.00292	1	02/10/2019 11:51	WG1235014
1,1,2,2-Tetrachloroethane	U		0.000455	0.00292	1	02/10/2019 11:51	WG1235014
1,1,2-Trichlorotrifluoroethane	U		0.000788	0.00292	1	02/10/2019 11:51	WG1235014
Tetrachloroethene	0.0477		0.000817	0.00292	1	02/10/2019 11:51	WG1235014
Toluene	U		0.00146	0.00583	1	02/10/2019 11:51	WG1235014
1,2,3-Trichlorobenzene	U		0.000729	0.00292	1	02/10/2019 11:51	WG1235014
1,2,4-Trichlorobenzene	U		0.00562	0.0146	1	02/10/2019 11:51	WG1235014
1,1,1-Trichloroethane	U		0.000321	0.00292	1	02/10/2019 11:51	WG1235014
1,1,2-Trichloroethane	U		0.00103	0.00292	1	02/10/2019 11:51	WG1235014
Trichloroethene	0.0296		0.000467	0.00117	1	02/10/2019 11:51	WG1235014
Trichlorofluoromethane	U		0.000583	0.00292	1	02/10/2019 11:51	WG1235014
1,2,3-Trichloropropane	U		0.00595	0.0146	1	02/10/2019 11:51	WG1235014
1,2,4-Trimethylbenzene	U		0.00135	0.00583	1	02/10/2019 11:51	WG1235014
1,2,3-Trimethylbenzene	U		0.00134	0.00583	1	02/10/2019 11:51	WG1235014
1,3,5-Trimethylbenzene	U		0.00126	0.00583	1	02/10/2019 11:51	WG1235014
Vinyl acetate	U		0.00411	0.0146	1	02/10/2019 11:51	WG1235014
Vinyl chloride	U		0.000797	0.00292	1	02/10/2019 11:51	WG1235014
Xylenes, Total	U		0.00558	0.00759	1	02/10/2019 11:51	WG1235014
(S) Toluene-d8	102			75.0-131		02/10/2019 11:51	WG1235014
(S) Toluene-d8	100			75.0-131		02/13/2019 14:33	WG1235339
(S) Toluene-d8	102			75.0-131		02/14/2019 16:11	WG1237248
(S) 4-Bromofluorobenzene	93.9			67.0-138		02/10/2019 11:51	WG1235014
(S) 4-Bromofluorobenzene	95.8			67.0-138		02/13/2019 14:33	WG1235339
(S) 4-Bromofluorobenzene	102			67.0-138		02/14/2019 16:11	WG1237248
(S) 1,2-Dichloroethane-d4	101			70.0-130		02/10/2019 11:51	WG1235014
(S) 1,2-Dichloroethane-d4	89.9			70.0-130		02/13/2019 14:33	WG1235339
(S) 1,2-Dichloroethane-d4	111			70.0-130		02/14/2019 16:11	WG1237248

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.0		1	02/12/2019 18:13	WG1235875

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0157	0.0287	1	02/14/2019 16:35	WG1237248
Acrylonitrile	U		0.00218	0.0144	1	02/10/2019 12:10	WG1235014
Benzene	0.000462	J	0.000460	0.00115	1	02/10/2019 12:10	WG1235014
Bromobenzene	U		0.00121	0.0144	1	02/10/2019 12:10	WG1235014
Bromodichloromethane	U		0.000906	0.00287	1	02/10/2019 12:10	WG1235014
Bromochloromethane	U		0.00130	0.00575	1	02/10/2019 12:10	WG1235014
Bromoform	U		0.00687	0.0287	1	02/10/2019 12:10	WG1235014
Bromomethane	U		0.00425	0.0144	1	02/10/2019 12:10	WG1235014
n-Butylbenzene	U		0.00441	0.0144	1	02/10/2019 12:10	WG1235014
sec-Butylbenzene	U		0.00291	0.0144	1	02/10/2019 12:10	WG1235014
tert-Butylbenzene	U		0.00178	0.00575	1	02/10/2019 12:10	WG1235014
Carbon disulfide	U		0.00467	0.0144	1	02/10/2019 12:10	WG1235014
Carbon tetrachloride	U		0.00124	0.00575	1	02/10/2019 12:10	WG1235014
Chlorobenzene	U		0.000659	0.00287	1	02/10/2019 12:10	WG1235014
Chlorodibromomethane	U		0.000517	0.00287	1	02/10/2019 12:10	WG1235014
Chloroethane	U		0.00124	0.00575	1	02/10/2019 12:10	WG1235014
Chloroform	U		0.000477	0.00287	1	02/10/2019 12:10	WG1235014
Chloromethane	U		0.00160	0.0144	1	02/10/2019 12:10	WG1235014
2-Chlorotoluene	U		0.00106	0.00287	1	02/10/2019 12:10	WG1235014
4-Chlorotoluene	U		0.00130	0.00575	1	02/10/2019 12:10	WG1235014
1,2-Dibromo-3-Chloropropane	U		0.00586	0.0287	1	02/10/2019 12:10	WG1235014
1,2-Dibromoethane	U		0.000603	0.00287	1	02/10/2019 12:10	WG1235014
Dibromomethane	U		0.00115	0.00575	1	02/10/2019 12:10	WG1235014
1,2-Dichlorobenzene	U		0.00167	0.00575	1	02/10/2019 12:10	WG1235014
1,3-Dichlorobenzene	U		0.00195	0.00575	1	02/10/2019 12:10	WG1235014
1,4-Dichlorobenzene	U		0.00226	0.00575	1	02/10/2019 12:10	WG1235014
Dichlorodifluoromethane	U		0.000940	0.00287	1	02/10/2019 12:10	WG1235014
1,1-Dichloroethane	U		0.000661	0.00287	1	02/10/2019 12:10	WG1235014
1,2-Dichloroethane	U		0.000546	0.00287	1	02/13/2019 14:55	WG1235339
1,1-Dichloroethene	U		0.000575	0.00287	1	02/10/2019 12:10	WG1235014
cis-1,2-Dichloroethene	0.00665		0.000793	0.00287	1	02/10/2019 12:10	WG1235014
trans-1,2-Dichloroethene	U		0.00164	0.00575	1	02/10/2019 12:10	WG1235014
1,2-Dichloropropane	U		0.00146	0.00575	1	02/13/2019 14:55	WG1235339
1,1-Dichloropropene	U		0.000805	0.00287	1	02/10/2019 12:10	WG1235014
1,3-Dichloropropane	U		0.00201	0.00575	1	02/10/2019 12:10	WG1235014
cis-1,3-Dichloropropene	U		0.000779	0.00287	1	02/10/2019 12:10	WG1235014
trans-1,3-Dichloropropene	U		0.00176	0.00575	1	02/10/2019 12:10	WG1235014
trans-1,4-Dichloro-2-butene	U		0.00161	0.00575	1	02/10/2019 12:10	WG1235014
2,2-Dichloropropane	U		0.000911	0.00287	1	02/10/2019 12:10	WG1235014
Di-isopropyl ether	U		0.000402	0.00115	1	02/10/2019 12:10	WG1235014
Ethylbenzene	U		0.000609	0.00287	1	02/10/2019 12:10	WG1235014
Hexachloro-1,3-butadiene	U		0.0146	0.0287	1	02/10/2019 12:10	WG1235014
2-Hexanone	U		0.0115	0.0287	1	02/10/2019 12:10	WG1235014
n-Hexane	0.00374	B J	0.00122	0.00575	1	02/10/2019 12:10	WG1235014
Iodomethane	U		0.00695	0.0144	1	02/10/2019 12:10	WG1235014
Isopropylbenzene	U		0.000992	0.00287	1	02/10/2019 12:10	WG1235014
p-Isopropyltoluene	U		0.00268	0.00575	1	02/10/2019 12:10	WG1235014
2-Butanone (MEK)	U		0.0144	0.0287	1	02/10/2019 12:10	WG1235014
Methylene Chloride	U		0.00763	0.0287	1	02/10/2019 12:10	WG1235014
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0287	1	02/10/2019 12:10	WG1235014

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/07/19 08:55

L1068436

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000339	0.00115	1	02/10/2019 12:10	WG1235014
Naphthalene	U		0.00359	0.0144	1	02/10/2019 12:10	WG1235014
n-Propylbenzene	U		0.00136	0.00575	1	02/10/2019 12:10	WG1235014
Styrene	U		0.00314	0.0144	1	02/10/2019 12:10	WG1235014
1,1,1,2-Tetrachloroethane	U		0.000575	0.00287	1	02/10/2019 12:10	WG1235014
1,1,2,2-Tetrachloroethane	U		0.000448	0.00287	1	02/10/2019 12:10	WG1235014
1,1,2-Trichlorotrifluoroethane	U		0.000776	0.00287	1	02/10/2019 12:10	WG1235014
Tetrachloroethene	0.0190		0.000805	0.00287	1	02/10/2019 12:10	WG1235014
Toluene	U		0.00144	0.00575	1	02/10/2019 12:10	WG1235014
1,2,3-Trichlorobenzene	U		0.000718	0.00287	1	02/10/2019 12:10	WG1235014
1,2,4-Trichlorobenzene	U		0.00554	0.0144	1	02/10/2019 12:10	WG1235014
1,1,1-Trichloroethane	U		0.000316	0.00287	1	02/10/2019 12:10	WG1235014
1,1,2-Trichloroethane	U		0.00101	0.00287	1	02/10/2019 12:10	WG1235014
Trichloroethene	0.00885		0.000460	0.00115	1	02/10/2019 12:10	WG1235014
Trichlorofluoromethane	U		0.000575	0.00287	1	02/10/2019 12:10	WG1235014
1,2,3-Trichloropropane	U		0.00586	0.0144	1	02/10/2019 12:10	WG1235014
1,2,4-Trimethylbenzene	U		0.00133	0.00575	1	02/10/2019 12:10	WG1235014
1,2,3-Trimethylbenzene	U		0.00132	0.00575	1	02/10/2019 12:10	WG1235014
1,3,5-Trimethylbenzene	U		0.00124	0.00575	1	02/10/2019 12:10	WG1235014
Vinyl acetate	U		0.00405	0.0144	1	02/10/2019 12:10	WG1235014
Vinyl chloride	U		0.000785	0.00287	1	02/10/2019 12:10	WG1235014
Xylenes, Total	U		0.00549	0.00747	1	02/10/2019 12:10	WG1235014
(S) Toluene-d8	105			75.0-131		02/10/2019 12:10	WG1235014
(S) Toluene-d8	99.7			75.0-131		02/13/2019 14:55	WG1235339
(S) Toluene-d8	103			75.0-131		02/14/2019 16:35	WG1237248
(S) 4-Bromofluorobenzene	97.6			67.0-138		02/10/2019 12:10	WG1235014
(S) 4-Bromofluorobenzene	95.4			67.0-138		02/13/2019 14:55	WG1235339
(S) 4-Bromofluorobenzene	101			67.0-138		02/14/2019 16:35	WG1237248
(S) 1,2-Dichloroethane-d4	102			70.0-130		02/10/2019 12:10	WG1235014
(S) 1,2-Dichloroethane-d4	88.7			70.0-130		02/13/2019 14:55	WG1235339
(S) 1,2-Dichloroethane-d4	102			70.0-130		02/14/2019 16:35	WG1237248

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	92.9		1	02/12/2019 18:13	WG1235875

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0147	0.0269	1	02/14/2019 16:59	WG1237248
Acrylonitrile	U		0.00204	0.0135	1	02/10/2019 12:29	WG1235014
Benzene	U		0.000430	0.00108	1	02/10/2019 12:29	WG1235014
Bromobenzene	U		0.00113	0.0135	1	02/10/2019 12:29	WG1235014
Bromodichloromethane	U		0.000848	0.00269	1	02/10/2019 12:29	WG1235014
Bromochloromethane	U		0.00122	0.00538	1	02/10/2019 12:29	WG1235014
Bromoform	U		0.00644	0.0269	1	02/10/2019 12:29	WG1235014
Bromomethane	U		0.00398	0.0135	1	02/10/2019 12:29	WG1235014
n-Butylbenzene	U		0.00413	0.0135	1	02/10/2019 12:29	WG1235014
sec-Butylbenzene	U		0.00272	0.0135	1	02/10/2019 12:29	WG1235014
tert-Butylbenzene	U		0.00167	0.00538	1	02/10/2019 12:29	WG1235014
Carbon disulfide	U		0.00437	0.0135	1	02/10/2019 12:29	WG1235014
Carbon tetrachloride	U		0.00116	0.00538	1	02/10/2019 12:29	WG1235014
Chlorobenzene	U		0.000617	0.00269	1	02/10/2019 12:29	WG1235014
Chlorodibromomethane	U		0.000484	0.00269	1	02/10/2019 12:29	WG1235014
Chloroethane	U		0.00116	0.00538	1	02/10/2019 12:29	WG1235014
Chloroform	U		0.000447	0.00269	1	02/10/2019 12:29	WG1235014
Chloromethane	U		0.00150	0.0135	1	02/10/2019 12:29	WG1235014
2-Chlorotoluene	U		0.000990	0.00269	1	02/10/2019 12:29	WG1235014
4-Chlorotoluene	U		0.00122	0.00538	1	02/10/2019 12:29	WG1235014
1,2-Dibromo-3-Chloropropane	U		0.00549	0.0269	1	02/10/2019 12:29	WG1235014
1,2-Dibromoethane	U		0.000565	0.00269	1	02/10/2019 12:29	WG1235014
Dibromomethane	U		0.00108	0.00538	1	02/10/2019 12:29	WG1235014
1,2-Dichlorobenzene	U		0.00156	0.00538	1	02/10/2019 12:29	WG1235014
1,3-Dichlorobenzene	U		0.00183	0.00538	1	02/10/2019 12:29	WG1235014
1,4-Dichlorobenzene	U		0.00212	0.00538	1	02/10/2019 12:29	WG1235014
Dichlorodifluoromethane	U		0.000880	0.00269	1	02/10/2019 12:29	WG1235014
1,1-Dichloroethane	U		0.000619	0.00269	1	02/10/2019 12:29	WG1235014
1,2-Dichloroethane	U		0.000511	0.00269	1	02/13/2019 15:17	WG1235339
1,1-Dichloroethene	U		0.000538	0.00269	1	02/10/2019 12:29	WG1235014
cis-1,2-Dichloroethene	0.00881		0.000743	0.00269	1	02/10/2019 12:29	WG1235014
trans-1,2-Dichloroethene	U		0.00154	0.00538	1	02/10/2019 12:29	WG1235014
1,2-Dichloropropane	U		0.00137	0.00538	1	02/13/2019 15:17	WG1235339
1,1-Dichloropropene	U		0.000753	0.00269	1	02/10/2019 12:29	WG1235014
1,3-Dichloropropane	U		0.00188	0.00538	1	02/10/2019 12:29	WG1235014
cis-1,3-Dichloropropene	U		0.000730	0.00269	1	02/10/2019 12:29	WG1235014
trans-1,3-Dichloropropene	U		0.00165	0.00538	1	02/10/2019 12:29	WG1235014
trans-1,4-Dichloro-2-butene	U		0.00151	0.00538	1	02/10/2019 12:29	WG1235014
2,2-Dichloropropane	U		0.000853	0.00269	1	02/10/2019 12:29	WG1235014
Di-isopropyl ether	U		0.000377	0.00108	1	02/10/2019 12:29	WG1235014
Ethylbenzene	U		0.000570	0.00269	1	02/10/2019 12:29	WG1235014
Hexachloro-1,3-butadiene	U		0.0137	0.0269	1	02/10/2019 12:29	WG1235014
2-Hexanone	U		0.0108	0.0269	1	02/10/2019 12:29	WG1235014
n-Hexane	U		0.00114	0.00538	1	02/10/2019 12:29	WG1235014
Iodomethane	U		0.00651	0.0135	1	02/10/2019 12:29	WG1235014
Isopropylbenzene	U		0.000929	0.00269	1	02/10/2019 12:29	WG1235014
p-Isopropyltoluene	U		0.00251	0.00538	1	02/10/2019 12:29	WG1235014
2-Butanone (MEK)	0.0207	J	0.0135	0.0269	1	02/10/2019 12:29	WG1235014
Methylene Chloride	U		0.00715	0.0269	1	02/10/2019 12:29	WG1235014
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0269	1	02/10/2019 12:29	WG1235014

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/07/19 09:00

L1068436

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000317	0.00108	1	02/10/2019 12:29	WG1235014
Naphthalene	U		0.00336	0.0135	1	02/10/2019 12:29	WG1235014
n-Propylbenzene	U		0.00127	0.00538	1	02/10/2019 12:29	WG1235014
Styrene	U		0.00294	0.0135	1	02/10/2019 12:29	WG1235014
1,1,1,2-Tetrachloroethane	U		0.000538	0.00269	1	02/10/2019 12:29	WG1235014
1,1,2,2-Tetrachloroethane	U		0.000420	0.00269	1	02/10/2019 12:29	WG1235014
1,1,2-Trichlorotrifluoroethane	U		0.000726	0.00269	1	02/10/2019 12:29	WG1235014
Tetrachloroethene	0.0381		0.000753	0.00269	1	02/10/2019 12:29	WG1235014
Toluene	U		0.00135	0.00538	1	02/10/2019 12:29	WG1235014
1,2,3-Trichlorobenzene	U		0.000673	0.00269	1	02/10/2019 12:29	WG1235014
1,2,4-Trichlorobenzene	U		0.00519	0.0135	1	02/10/2019 12:29	WG1235014
1,1,1-Trichloroethane	U		0.000296	0.00269	1	02/10/2019 12:29	WG1235014
1,1,2-Trichloroethane	U		0.000950	0.00269	1	02/10/2019 12:29	WG1235014
Trichloroethene	0.00731		0.000430	0.00108	1	02/10/2019 12:29	WG1235014
Trichlorofluoromethane	U		0.000538	0.00269	1	02/10/2019 12:29	WG1235014
1,2,3-Trichloropropane	U		0.00549	0.0135	1	02/10/2019 12:29	WG1235014
1,2,4-Trimethylbenzene	U		0.00125	0.00538	1	02/10/2019 12:29	WG1235014
1,2,3-Trimethylbenzene	U		0.00124	0.00538	1	02/10/2019 12:29	WG1235014
1,3,5-Trimethylbenzene	U		0.00116	0.00538	1	02/10/2019 12:29	WG1235014
Vinyl acetate	U		0.00379	0.0135	1	02/10/2019 12:29	WG1235014
Vinyl chloride	0.00576		0.000735	0.00269	1	02/10/2019 12:29	WG1235014
Xylenes, Total	U		0.00514	0.00700	1	02/10/2019 12:29	WG1235014
(S) Toluene-d8	101			75.0-131		02/10/2019 12:29	WG1235014
(S) Toluene-d8	99.3			75.0-131		02/13/2019 15:17	WG1235339
(S) Toluene-d8	103			75.0-131		02/14/2019 16:59	WG1237248
(S) 4-Bromofluorobenzene	97.4			67.0-138		02/10/2019 12:29	WG1235014
(S) 4-Bromofluorobenzene	95.5			67.0-138		02/13/2019 15:17	WG1235339
(S) 4-Bromofluorobenzene	101			67.0-138		02/14/2019 16:59	WG1237248
(S) 1,2-Dichloroethane-d4	104			70.0-130		02/10/2019 12:29	WG1235014
(S) 1,2-Dichloroethane-d4	89.2			70.0-130		02/13/2019 15:17	WG1235339
(S) 1,2-Dichloroethane-d4	103			70.0-130		02/14/2019 16:59	WG1237248

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	93.6		1	02/12/2019 18:01	WG1235876

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.146	0.267	10	02/14/2019 19:24	WG1237248
Acrylonitrile	U		0.00203	0.0134	1	02/10/2019 12:47	WG1235014
Benzene	0.000558	J	0.000427	0.00107	1	02/10/2019 12:47	WG1235014
Bromobenzene	U		0.00112	0.0134	1	02/10/2019 12:47	WG1235014
Bromodichloromethane	U		0.000842	0.00267	1	02/10/2019 12:47	WG1235014
Bromochloromethane	U		0.00121	0.00534	1	02/10/2019 12:47	WG1235014
Bromoform	U		0.00639	0.0267	1	02/10/2019 12:47	WG1235014
Bromomethane	U		0.00395	0.0134	1	02/10/2019 12:47	WG1235014
n-Butylbenzene	U		0.00410	0.0134	1	02/10/2019 12:47	WG1235014
sec-Butylbenzene	U		0.00270	0.0134	1	02/10/2019 12:47	WG1235014
tert-Butylbenzene	U		0.00166	0.00534	1	02/10/2019 12:47	WG1235014
Carbon disulfide	U		0.00434	0.0134	1	02/10/2019 12:47	WG1235014
Carbon tetrachloride	U		0.00115	0.00534	1	02/10/2019 12:47	WG1235014
Chlorobenzene	U		0.000612	0.00267	1	02/10/2019 12:47	WG1235014
Chlorodibromomethane	U		0.000481	0.00267	1	02/10/2019 12:47	WG1235014
Chloroethane	U		0.00115	0.00534	1	02/10/2019 12:47	WG1235014
Chloroform	U		0.000443	0.00267	1	02/10/2019 12:47	WG1235014
Chloromethane	U		0.00148	0.0134	1	02/10/2019 12:47	WG1235014
2-Chlorotoluene	U		0.000983	0.00267	1	02/10/2019 12:47	WG1235014
4-Chlorotoluene	U		0.00121	0.00534	1	02/10/2019 12:47	WG1235014
1,2-Dibromo-3-Chloropropane	U		0.00545	0.0267	1	02/10/2019 12:47	WG1235014
1,2-Dibromoethane	U		0.000561	0.00267	1	02/10/2019 12:47	WG1235014
Dibromomethane	U		0.00107	0.00534	1	02/10/2019 12:47	WG1235014
1,2-Dichlorobenzene	U		0.00155	0.00534	1	02/10/2019 12:47	WG1235014
1,3-Dichlorobenzene	U		0.00182	0.00534	1	02/10/2019 12:47	WG1235014
1,4-Dichlorobenzene	U		0.00210	0.00534	1	02/10/2019 12:47	WG1235014
Dichlorodifluoromethane	U		0.000874	0.00267	1	02/10/2019 12:47	WG1235014
1,1-Dichloroethane	U		0.000614	0.00267	1	02/10/2019 12:47	WG1235014
1,2-Dichloroethane	0.00771	J	0.00507	0.0267	10	02/13/2019 17:31	WG1235339
1,1-Dichloroethene	0.00349		0.000534	0.00267	1	02/10/2019 12:47	WG1235014
cis-1,2-Dichloroethene	1.04		0.000737	0.00267	1	02/10/2019 12:47	WG1235014
trans-1,2-Dichloroethene	0.00738		0.00153	0.00534	1	02/10/2019 12:47	WG1235014
1,2-Dichloropropane	U		0.0136	0.0534	10	02/13/2019 17:31	WG1235339
1,1-Dichloropropene	U		0.000748	0.00267	1	02/10/2019 12:47	WG1235014
1,3-Dichloropropane	U		0.00187	0.00534	1	02/10/2019 12:47	WG1235014
cis-1,3-Dichloropropene	U		0.000724	0.00267	1	02/10/2019 12:47	WG1235014
trans-1,3-Dichloropropene	U		0.00163	0.00534	1	02/10/2019 12:47	WG1235014
trans-1,4-Dichloro-2-butene	U		0.00150	0.00534	1	02/10/2019 12:47	WG1235014
2,2-Dichloropropane	U		0.000847	0.00267	1	02/10/2019 12:47	WG1235014
Di-isopropyl ether	U		0.000374	0.00107	1	02/10/2019 12:47	WG1235014
Ethylbenzene	U		0.000566	0.00267	1	02/10/2019 12:47	WG1235014
Hexachloro-1,3-butadiene	U		0.0136	0.0267	1	02/10/2019 12:47	WG1235014
2-Hexanone	U		0.0107	0.0267	1	02/10/2019 12:47	WG1235014
n-Hexane	0.00516	B J	0.00113	0.00534	1	02/10/2019 12:47	WG1235014
Iodomethane	U		0.00646	0.0134	1	02/10/2019 12:47	WG1235014
Isopropylbenzene	U		0.000922	0.00267	1	02/10/2019 12:47	WG1235014
p-Isopropyltoluene	U		0.00249	0.00534	1	02/10/2019 12:47	WG1235014
2-Butanone (MEK)	0.0169	J	0.0134	0.0267	1	02/10/2019 12:47	WG1235014
Methylene Chloride	U		0.00709	0.0267	1	02/10/2019 12:47	WG1235014
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0267	1	02/10/2019 12:47	WG1235014

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/07/19 09:05

L1068436

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000315	0.00107	1	02/10/2019 12:47	WG1235014
Naphthalene	U		0.00333	0.0134	1	02/10/2019 12:47	WG1235014
n-Propylbenzene	U		0.00126	0.00534	1	02/10/2019 12:47	WG1235014
Styrene	U		0.00292	0.0134	1	02/10/2019 12:47	WG1235014
1,1,1,2-Tetrachloroethane	U		0.000534	0.00267	1	02/10/2019 12:47	WG1235014
1,1,2,2-Tetrachloroethane	U		0.000417	0.00267	1	02/10/2019 12:47	WG1235014
1,1,2-Trichlorotrifluoroethane	U		0.000721	0.00267	1	02/10/2019 12:47	WG1235014
Tetrachloroethene	4.44		0.00748	0.0267	10	02/13/2019 17:31	WG1235339
Toluene	0.00160	J	0.00134	0.00534	1	02/10/2019 12:47	WG1235014
1,2,3-Trichlorobenzene	U		0.000668	0.00267	1	02/10/2019 12:47	WG1235014
1,2,4-Trichlorobenzene	U		0.00515	0.0134	1	02/10/2019 12:47	WG1235014
1,1,1-Trichloroethane	U		0.000294	0.00267	1	02/10/2019 12:47	WG1235014
1,1,2-Trichloroethane	U		0.000943	0.00267	1	02/10/2019 12:47	WG1235014
Trichloroethene	1.32		0.000427	0.00107	1	02/10/2019 12:47	WG1235014
Trichlorofluoromethane	U		0.000534	0.00267	1	02/10/2019 12:47	WG1235014
1,2,3-Trichloropropane	U		0.00545	0.0134	1	02/10/2019 12:47	WG1235014
1,2,4-Trimethylbenzene	U		0.00124	0.00534	1	02/10/2019 12:47	WG1235014
1,2,3-Trimethylbenzene	U		0.00123	0.00534	1	02/10/2019 12:47	WG1235014
1,3,5-Trimethylbenzene	U		0.00115	0.00534	1	02/10/2019 12:47	WG1235014
Vinyl acetate	U		0.00376	0.0134	1	02/10/2019 12:47	WG1235014
Vinyl chloride	0.0872		0.000730	0.00267	1	02/10/2019 12:47	WG1235014
Xylenes, Total	U		0.00511	0.00694	1	02/10/2019 12:47	WG1235014
(S) Toluene-d8	104			75.0-131		02/10/2019 12:47	WG1235014
(S) Toluene-d8	98.0			75.0-131		02/13/2019 17:31	WG1235339
(S) Toluene-d8	105			75.0-131		02/14/2019 19:24	WG1237248
(S) 4-Bromofluorobenzene	96.3			67.0-138		02/10/2019 12:47	WG1235014
(S) 4-Bromofluorobenzene	97.0			67.0-138		02/13/2019 17:31	WG1235339
(S) 4-Bromofluorobenzene	95.6			67.0-138		02/14/2019 19:24	WG1237248
(S) 1,2-Dichloroethane-d4	100			70.0-130		02/10/2019 12:47	WG1235014
(S) 1,2-Dichloroethane-d4	99.0			70.0-130		02/13/2019 17:31	WG1235339
(S) 1,2-Dichloroethane-d4	106			70.0-130		02/14/2019 19:24	WG1237248

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	94.5		1	02/12/2019 18:01	WG1235876

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0145	0.0265	1	02/14/2019 17:23	WG1237248
Acrylonitrile	U		0.00201	0.0132	1	02/10/2019 13:06	WG1235014
Benzene	U		0.000423	0.00106	1	02/10/2019 13:06	WG1235014
Bromobenzene	U		0.00111	0.0132	1	02/10/2019 13:06	WG1235014
Bromodichloromethane	U		0.000834	0.00265	1	02/10/2019 13:06	WG1235014
Bromochloromethane	U		0.00120	0.00529	1	02/10/2019 13:06	WG1235014
Bromoform	U		0.00633	0.0265	1	02/10/2019 13:06	WG1235014
Bromomethane	U		0.00392	0.0132	1	02/10/2019 13:06	WG1235014
n-Butylbenzene	U		0.00406	0.0132	1	02/10/2019 13:06	WG1235014
sec-Butylbenzene	U		0.00268	0.0132	1	02/10/2019 13:06	WG1235014
tert-Butylbenzene	U		0.00164	0.00529	1	02/10/2019 13:06	WG1235014
Carbon disulfide	U		0.00430	0.0132	1	02/10/2019 13:06	WG1235014
Carbon tetrachloride	U		0.00114	0.00529	1	02/10/2019 13:06	WG1235014
Chlorobenzene	U		0.000606	0.00265	1	02/10/2019 13:06	WG1235014
Chlorodibromomethane	U		0.000476	0.00265	1	02/10/2019 13:06	WG1235014
Chloroethane	U		0.00114	0.00529	1	02/10/2019 13:06	WG1235014
Chloroform	U		0.000439	0.00265	1	02/10/2019 13:06	WG1235014
Chloromethane	U		0.00147	0.0132	1	02/10/2019 13:06	WG1235014
2-Chlorotoluene	U		0.000974	0.00265	1	02/10/2019 13:06	WG1235014
4-Chlorotoluene	U		0.00120	0.00529	1	02/10/2019 13:06	WG1235014
1,2-Dibromo-3-Chloropropane	U		0.00540	0.0265	1	02/10/2019 13:06	WG1235014
1,2-Dibromoethane	U		0.000556	0.00265	1	02/10/2019 13:06	WG1235014
Dibromomethane	U		0.00106	0.00529	1	02/10/2019 13:06	WG1235014
1,2-Dichlorobenzene	U		0.00153	0.00529	1	02/10/2019 13:06	WG1235014
1,3-Dichlorobenzene	U		0.00180	0.00529	1	02/10/2019 13:06	WG1235014
1,4-Dichlorobenzene	U		0.00208	0.00529	1	02/10/2019 13:06	WG1235014
Dichlorodifluoromethane	U		0.000866	0.00265	1	02/10/2019 13:06	WG1235014
1,1-Dichloroethane	U		0.000609	0.00265	1	02/10/2019 13:06	WG1235014
1,2-Dichloroethane	U		0.000503	0.00265	1	02/13/2019 15:40	WG1235339
1,1-Dichloroethene	U		0.000529	0.00265	1	02/10/2019 13:06	WG1235014
cis-1,2-Dichloroethene	0.167		0.000730	0.00265	1	02/10/2019 13:06	WG1235014
trans-1,2-Dichloroethene	0.00170	J	0.00151	0.00529	1	02/10/2019 13:06	WG1235014
1,2-Dichloropropane	U		0.00134	0.00529	1	02/13/2019 15:40	WG1235339
1,1-Dichloropropene	U		0.000741	0.00265	1	02/10/2019 13:06	WG1235014
1,3-Dichloropropane	U		0.00185	0.00529	1	02/10/2019 13:06	WG1235014
cis-1,3-Dichloropropene	U		0.000718	0.00265	1	02/10/2019 13:06	WG1235014
trans-1,3-Dichloropropene	U		0.00162	0.00529	1	02/10/2019 13:06	WG1235014
trans-1,4-Dichloro-2-butene	U		0.00148	0.00529	1	02/10/2019 13:06	WG1235014
2,2-Dichloropropane	U		0.000839	0.00265	1	02/10/2019 13:06	WG1235014
Di-isopropyl ether	U		0.000370	0.00106	1	02/10/2019 13:06	WG1235014
Ethylbenzene	U		0.000561	0.00265	1	02/10/2019 13:06	WG1235014
Hexachloro-1,3-butadiene	U		0.0134	0.0265	1	02/10/2019 13:06	WG1235014
2-Hexanone	U		0.0106	0.0265	1	02/10/2019 13:06	WG1235014
n-Hexane	0.00317	B J	0.00112	0.00529	1	02/10/2019 13:06	WG1235014
Iodomethane	U		0.00640	0.0132	1	02/10/2019 13:06	WG1235014
Isopropylbenzene	U		0.000913	0.00265	1	02/10/2019 13:06	WG1235014
p-Isopropyltoluene	U		0.00247	0.00529	1	02/10/2019 13:06	WG1235014
2-Butanone (MEK)	U		0.0132	0.0265	1	02/10/2019 13:06	WG1235014
Methylene Chloride	U		0.00703	0.0265	1	02/10/2019 13:06	WG1235014
4-Methyl-2-pentanone (MIBK)	U		0.0106	0.0265	1	02/10/2019 13:06	WG1235014

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/07/19 09:07

L1068436

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000312	0.00106	1	02/10/2019 13:06	WG1235014
Naphthalene	U		0.00330	0.0132	1	02/10/2019 13:06	WG1235014
n-Propylbenzene	U		0.00125	0.00529	1	02/10/2019 13:06	WG1235014
Styrene	U		0.00289	0.0132	1	02/10/2019 13:06	WG1235014
1,1,1,2-Tetrachloroethane	U		0.000529	0.00265	1	02/10/2019 13:06	WG1235014
1,1,2,2-Tetrachloroethane	U		0.000413	0.00265	1	02/10/2019 13:06	WG1235014
1,1,2-Trichlorotrifluoroethane	U		0.000714	0.00265	1	02/10/2019 13:06	WG1235014
Tetrachloroethene	0.187		0.000741	0.00265	1	02/13/2019 15:40	WG1235339
Toluene	U		0.00132	0.00529	1	02/10/2019 13:06	WG1235014
1,2,3-Trichlorobenzene	U		0.000661	0.00265	1	02/10/2019 13:06	WG1235014
1,2,4-Trichlorobenzene	U		0.00510	0.0132	1	02/10/2019 13:06	WG1235014
1,1,1-Trichloroethane	U		0.000291	0.00265	1	02/10/2019 13:06	WG1235014
1,1,2-Trichloroethane	U		0.000934	0.00265	1	02/10/2019 13:06	WG1235014
Trichloroethene	0.248		0.000423	0.00106	1	02/10/2019 13:06	WG1235014
Trichlorofluoromethane	U		0.000529	0.00265	1	02/10/2019 13:06	WG1235014
1,2,3-Trichloropropane	U		0.00540	0.0132	1	02/10/2019 13:06	WG1235014
1,2,4-Trimethylbenzene	U		0.00123	0.00529	1	02/10/2019 13:06	WG1235014
1,2,3-Trimethylbenzene	U		0.00122	0.00529	1	02/10/2019 13:06	WG1235014
1,3,5-Trimethylbenzene	U		0.00114	0.00529	1	02/10/2019 13:06	WG1235014
Vinyl acetate	U		0.00373	0.0132	1	02/10/2019 13:06	WG1235014
Vinyl chloride	0.00747		0.000723	0.00265	1	02/10/2019 13:06	WG1235014
Xylenes, Total	U		0.00506	0.00688	1	02/10/2019 13:06	WG1235014
(S) Toluene-d8	102			75.0-131		02/10/2019 13:06	WG1235014
(S) Toluene-d8	99.2			75.0-131		02/13/2019 15:40	WG1235339
(S) Toluene-d8	103			75.0-131		02/14/2019 17:23	WG1237248
(S) 4-Bromofluorobenzene	97.0			67.0-138		02/10/2019 13:06	WG1235014
(S) 4-Bromofluorobenzene	95.2			67.0-138		02/13/2019 15:40	WG1235339
(S) 4-Bromofluorobenzene	100			67.0-138		02/14/2019 17:23	WG1237248
(S) 1,2-Dichloroethane-d4	103			70.0-130		02/10/2019 13:06	WG1235014
(S) 1,2-Dichloroethane-d4	90.7			70.0-130		02/13/2019 15:40	WG1235339
(S) 1,2-Dichloroethane-d4	106			70.0-130		02/14/2019 17:23	WG1237248

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	93.2		1	02/12/2019 18:01	WG1235876

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0147	0.0268	1	02/14/2019 17:48	WG1237248
Acrylonitrile	U		0.00204	0.0134	1	02/10/2019 13:25	WG1235014
Benzene	0.000825	J	0.000429	0.00107	1	02/10/2019 13:25	WG1235014
Bromobenzene	U		0.00113	0.0134	1	02/10/2019 13:25	WG1235014
Bromodichloromethane	U		0.000845	0.00268	1	02/10/2019 13:25	WG1235014
Bromochloromethane	U		0.00121	0.00536	1	02/10/2019 13:25	WG1235014
Bromoform	U		0.00641	0.0268	1	02/10/2019 13:25	WG1235014
Bromomethane	U		0.00397	0.0134	1	02/10/2019 13:25	WG1235014
n-Butylbenzene	U		0.00412	0.0134	1	02/10/2019 13:25	WG1235014
sec-Butylbenzene	U		0.00271	0.0134	1	02/10/2019 13:25	WG1235014
tert-Butylbenzene	U		0.00166	0.00536	1	02/10/2019 13:25	WG1235014
Carbon disulfide	U		0.00436	0.0134	1	02/10/2019 13:25	WG1235014
Carbon tetrachloride	U		0.00116	0.00536	1	02/10/2019 13:25	WG1235014
Chlorobenzene	U		0.000615	0.00268	1	02/10/2019 13:25	WG1235014
Chlorodibromomethane	U		0.000483	0.00268	1	02/10/2019 13:25	WG1235014
Chloroethane	U		0.00116	0.00536	1	02/10/2019 13:25	WG1235014
Chloroform	U		0.000445	0.00268	1	02/10/2019 13:25	WG1235014
Chloromethane	U		0.00149	0.0134	1	02/10/2019 13:25	WG1235014
2-Chlorotoluene	U		0.000987	0.00268	1	02/10/2019 13:25	WG1235014
4-Chlorotoluene	U		0.00121	0.00536	1	02/10/2019 13:25	WG1235014
1,2-Dibromo-3-Chloropropane	U		0.00547	0.0268	1	02/10/2019 13:25	WG1235014
1,2-Dibromoethane	U		0.000563	0.00268	1	02/10/2019 13:25	WG1235014
Dibromomethane	U		0.00107	0.00536	1	02/10/2019 13:25	WG1235014
1,2-Dichlorobenzene	U		0.00156	0.00536	1	02/10/2019 13:25	WG1235014
1,3-Dichlorobenzene	U		0.00182	0.00536	1	02/10/2019 13:25	WG1235014
1,4-Dichlorobenzene	U		0.00211	0.00536	1	02/10/2019 13:25	WG1235014
Dichlorodifluoromethane	U		0.000877	0.00268	1	02/10/2019 13:25	WG1235014
1,1-Dichloroethane	U		0.000617	0.00268	1	02/10/2019 13:25	WG1235014
1,2-Dichloroethane	U		0.000510	0.00268	1	02/13/2019 16:02	WG1235339
1,1-Dichloroethene	0.00636		0.000536	0.00268	1	02/10/2019 13:25	WG1235014
cis-1,2-Dichloroethene	1.74		0.000740	0.00268	1	02/10/2019 13:25	WG1235014
trans-1,2-Dichloroethene	0.00383	J	0.00153	0.00536	1	02/10/2019 13:25	WG1235014
1,2-Dichloropropane	U		0.00136	0.00536	1	02/13/2019 16:02	WG1235339
1,1-Dichloropropene	U		0.000751	0.00268	1	02/10/2019 13:25	WG1235014
1,3-Dichloropropane	U		0.00188	0.00536	1	02/10/2019 13:25	WG1235014
cis-1,3-Dichloropropene	U		0.000727	0.00268	1	02/10/2019 13:25	WG1235014
trans-1,3-Dichloropropene	U		0.00164	0.00536	1	02/10/2019 13:25	WG1235014
trans-1,4-Dichloro-2-butene	U		0.00150	0.00536	1	02/10/2019 13:25	WG1235014
2,2-Dichloropropane	U		0.000851	0.00268	1	02/10/2019 13:25	WG1235014
Di-isopropyl ether	U		0.000375	0.00107	1	02/10/2019 13:25	WG1235014
Ethylbenzene	U		0.000569	0.00268	1	02/10/2019 13:25	WG1235014
Hexachloro-1,3-butadiene	U		0.0136	0.0268	1	02/10/2019 13:25	WG1235014
2-Hexanone	U		0.0107	0.0268	1	02/10/2019 13:25	WG1235014
n-Hexane	U		0.00114	0.00536	1	02/10/2019 13:25	WG1235014
Iodomethane	U		0.00649	0.0134	1	02/10/2019 13:25	WG1235014
Isopropylbenzene	U		0.000926	0.00268	1	02/10/2019 13:25	WG1235014
p-Isopropyltoluene	U		0.00250	0.00536	1	02/10/2019 13:25	WG1235014
2-Butanone (MEK)	0.0209	J	0.0134	0.0268	1	02/10/2019 13:25	WG1235014
Methylene Chloride	U		0.00712	0.0268	1	02/10/2019 13:25	WG1235014
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0268	1	02/10/2019 13:25	WG1235014

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/07/19 09:10

L1068436

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000316	0.00107	1	02/10/2019 13:25	WG1235014
Naphthalene	U		0.00335	0.0134	1	02/10/2019 13:25	WG1235014
n-Propylbenzene	U		0.00127	0.00536	1	02/10/2019 13:25	WG1235014
Styrene	U		0.00293	0.0134	1	02/10/2019 13:25	WG1235014
1,1,1,2-Tetrachloroethane	U		0.000536	0.00268	1	02/10/2019 13:25	WG1235014
1,1,2,2-Tetrachloroethane	U		0.000418	0.00268	1	02/10/2019 13:25	WG1235014
1,1,2-Trichlorotrifluoroethane	U		0.000724	0.00268	1	02/10/2019 13:25	WG1235014
Tetrachloroethene	0.0243		0.000751	0.00268	1	02/13/2019 16:02	WG1235339
Toluene	0.00217	J	0.00134	0.00536	1	02/10/2019 13:25	WG1235014
1,2,3-Trichlorobenzene	U		0.000670	0.00268	1	02/10/2019 13:25	WG1235014
1,2,4-Trichlorobenzene	U		0.00517	0.0134	1	02/10/2019 13:25	WG1235014
1,1,1-Trichloroethane	U		0.000295	0.00268	1	02/10/2019 13:25	WG1235014
1,1,2-Trichloroethane	U		0.000947	0.00268	1	02/10/2019 13:25	WG1235014
Trichloroethene	0.153		0.000429	0.00107	1	02/10/2019 13:25	WG1235014
Trichlorofluoromethane	U		0.000536	0.00268	1	02/10/2019 13:25	WG1235014
1,2,3-Trichloropropane	U		0.00547	0.0134	1	02/10/2019 13:25	WG1235014
1,2,4-Trimethylbenzene	U		0.00124	0.00536	1	02/10/2019 13:25	WG1235014
1,2,3-Trimethylbenzene	U		0.00123	0.00536	1	02/10/2019 13:25	WG1235014
1,3,5-Trimethylbenzene	U		0.00116	0.00536	1	02/10/2019 13:25	WG1235014
Vinyl acetate	U		0.00378	0.0134	1	02/10/2019 13:25	WG1235014
Vinyl chloride	0.0754		0.000733	0.00268	1	02/10/2019 13:25	WG1235014
Xylenes, Total	U		0.00513	0.00697	1	02/10/2019 13:25	WG1235014
(S) Toluene-d8	101			75.0-131		02/10/2019 13:25	WG1235014
(S) Toluene-d8	100			75.0-131		02/13/2019 16:02	WG1235339
(S) Toluene-d8	103			75.0-131		02/14/2019 17:48	WG1237248
(S) 4-Bromofluorobenzene	99.0			67.0-138		02/10/2019 13:25	WG1235014
(S) 4-Bromofluorobenzene	95.1			67.0-138		02/13/2019 16:02	WG1235339
(S) 4-Bromofluorobenzene	101			67.0-138		02/14/2019 17:48	WG1237248
(S) 1,2-Dichloroethane-d4	104			70.0-130		02/10/2019 13:25	WG1235014
(S) 1,2-Dichloroethane-d4	89.9			70.0-130		02/13/2019 16:02	WG1235339
(S) 1,2-Dichloroethane-d4	106			70.0-130		02/14/2019 17:48	WG1237248

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	95.6		1	02/12/2019 18:01	WG1235876

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0143	0.0262	1	02/14/2019 18:12	WG1237248
Acrylonitrile	U		0.00199	0.0131	1	02/10/2019 13:43	WG1235014
Benzene	0.000500	J	0.000419	0.00105	1	02/10/2019 13:43	WG1235014
Bromobenzene	U		0.00110	0.0131	1	02/10/2019 13:43	WG1235014
Bromodichloromethane	U		0.000825	0.00262	1	02/10/2019 13:43	WG1235014
Bromochloromethane	U		0.00118	0.00523	1	02/10/2019 13:43	WG1235014
Bromoform	U		0.00626	0.0262	1	02/10/2019 13:43	WG1235014
Bromomethane	U		0.00387	0.0131	1	02/10/2019 13:43	WG1235014
n-Butylbenzene	U		0.00402	0.0131	1	02/10/2019 13:43	WG1235014
sec-Butylbenzene	U		0.00265	0.0131	1	02/10/2019 13:43	WG1235014
tert-Butylbenzene	U		0.00162	0.00523	1	02/10/2019 13:43	WG1235014
Carbon disulfide	0.00996	J	0.00425	0.0131	1	02/10/2019 13:43	WG1235014
Carbon tetrachloride	U		0.00113	0.00523	1	02/10/2019 13:43	WG1235014
Chlorobenzene	U		0.000600	0.00262	1	02/10/2019 13:43	WG1235014
Chlorodibromomethane	U		0.000471	0.00262	1	02/10/2019 13:43	WG1235014
Chloroethane	U		0.00113	0.00523	1	02/10/2019 13:43	WG1235014
Chloroform	U		0.000434	0.00262	1	02/10/2019 13:43	WG1235014
Chloromethane	U		0.00145	0.0131	1	02/10/2019 13:43	WG1235014
2-Chlorotoluene	U		0.000963	0.00262	1	02/10/2019 13:43	WG1235014
4-Chlorotoluene	U		0.00118	0.00523	1	02/10/2019 13:43	WG1235014
1,2-Dibromo-3-Chloropropane	U		0.00534	0.0262	1	02/10/2019 13:43	WG1235014
1,2-Dibromoethane	U		0.000549	0.00262	1	02/10/2019 13:43	WG1235014
Dibromomethane	U		0.00105	0.00523	1	02/10/2019 13:43	WG1235014
1,2-Dichlorobenzene	U		0.00152	0.00523	1	02/10/2019 13:43	WG1235014
1,3-Dichlorobenzene	U		0.00178	0.00523	1	02/10/2019 13:43	WG1235014
1,4-Dichlorobenzene	U		0.00206	0.00523	1	02/10/2019 13:43	WG1235014
Dichlorodifluoromethane	U		0.000856	0.00262	1	02/10/2019 13:43	WG1235014
1,1-Dichloroethane	U		0.000602	0.00262	1	02/10/2019 13:43	WG1235014
1,2-Dichloroethane	U		0.000497	0.00262	1	02/13/2019 16:24	WG1235339
1,1-Dichloroethene	U		0.000523	0.00262	1	02/10/2019 13:43	WG1235014
cis-1,2-Dichloroethene	0.0596		0.000722	0.00262	1	02/10/2019 13:43	WG1235014
trans-1,2-Dichloroethene	U		0.00150	0.00523	1	02/10/2019 13:43	WG1235014
1,2-Dichloropropane	U		0.00133	0.00523	1	02/13/2019 16:24	WG1235339
1,1-Dichloropropene	U		0.000732	0.00262	1	02/10/2019 13:43	WG1235014
1,3-Dichloropropane	U		0.00183	0.00523	1	02/10/2019 13:43	WG1235014
cis-1,3-Dichloropropene	U		0.000709	0.00262	1	02/10/2019 13:43	WG1235014
trans-1,3-Dichloropropene	U		0.00160	0.00523	1	02/10/2019 13:43	WG1235014
trans-1,4-Dichloro-2-butene	U		0.00146	0.00523	1	02/10/2019 13:43	WG1235014
2,2-Dichloropropane	U		0.000830	0.00262	1	02/10/2019 13:43	WG1235014
Di-isopropyl ether	U		0.000366	0.00105	1	02/10/2019 13:43	WG1235014
Ethylbenzene	U		0.000555	0.00262	1	02/10/2019 13:43	WG1235014
Hexachloro-1,3-butadiene	U		0.0133	0.0262	1	02/10/2019 13:43	WG1235014
2-Hexanone	U		0.0105	0.0262	1	02/10/2019 13:43	WG1235014
n-Hexane	U		0.00111	0.00523	1	02/10/2019 13:43	WG1235014
Iodomethane	U		0.00633	0.0131	1	02/10/2019 13:43	WG1235014
Isopropylbenzene	U		0.000903	0.00262	1	02/10/2019 13:43	WG1235014
p-Isopropyltoluene	U		0.00244	0.00523	1	02/10/2019 13:43	WG1235014
2-Butanone (MEK)	0.0182	J	0.0131	0.0262	1	02/10/2019 13:43	WG1235014
Methylene Chloride	U		0.00695	0.0262	1	02/10/2019 13:43	WG1235014
4-Methyl-2-pentanone (MIBK)	U		0.0105	0.0262	1	02/10/2019 13:43	WG1235014

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/07/19 10:50

L1068436

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	0.000435	U	0.000309	0.00105	1	02/10/2019 13:43	WG1235014
Naphthalene	U		0.00326	0.0131	1	02/10/2019 13:43	WG1235014
n-Propylbenzene	U		0.00123	0.00523	1	02/10/2019 13:43	WG1235014
Styrene	U		0.00286	0.0131	1	02/10/2019 13:43	WG1235014
1,1,1,2-Tetrachloroethane	U		0.000523	0.00262	1	02/10/2019 13:43	WG1235014
1,1,2,2-Tetrachloroethane	U		0.000408	0.00262	1	02/10/2019 13:43	WG1235014
1,1,2-Trichlorotrifluoroethane	U		0.000706	0.00262	1	02/10/2019 13:43	WG1235014
Tetrachloroethene	0.00154	U	0.000732	0.00262	1	02/13/2019 16:24	WG1235339
Toluene	0.00140	U	0.00131	0.00523	1	02/10/2019 13:43	WG1235014
1,2,3-Trichlorobenzene	U		0.000654	0.00262	1	02/10/2019 13:43	WG1235014
1,2,4-Trichlorobenzene	U		0.00504	0.0131	1	02/10/2019 13:43	WG1235014
1,1,1-Trichloroethane	U		0.000288	0.00262	1	02/10/2019 13:43	WG1235014
1,1,2-Trichloroethane	U		0.000924	0.00262	1	02/10/2019 13:43	WG1235014
Trichloroethene	0.00275		0.000419	0.00105	1	02/10/2019 13:43	WG1235014
Trichlorofluoromethane	U		0.000523	0.00262	1	02/10/2019 13:43	WG1235014
1,2,3-Trichloropropane	U		0.00534	0.0131	1	02/10/2019 13:43	WG1235014
1,2,4-Trimethylbenzene	U		0.00121	0.00523	1	02/10/2019 13:43	WG1235014
1,2,3-Trimethylbenzene	U		0.00120	0.00523	1	02/10/2019 13:43	WG1235014
1,3,5-Trimethylbenzene	U		0.00113	0.00523	1	02/10/2019 13:43	WG1235014
Vinyl acetate	U		0.00368	0.0131	1	02/10/2019 13:43	WG1235014
Vinyl chloride	0.0123		0.000715	0.00262	1	02/10/2019 13:43	WG1235014
Xylenes, Total	U		0.00500	0.00680	1	02/10/2019 13:43	WG1235014
(S) Toluene-d8	103			75.0-131		02/10/2019 13:43	WG1235014
(S) Toluene-d8	100			75.0-131		02/13/2019 16:24	WG1235339
(S) Toluene-d8	103			75.0-131		02/14/2019 18:12	WG1237248
(S) 4-Bromofluorobenzene	97.5			67.0-138		02/10/2019 13:43	WG1235014
(S) 4-Bromofluorobenzene	97.0			67.0-138		02/13/2019 16:24	WG1235339
(S) 4-Bromofluorobenzene	99.1			67.0-138		02/14/2019 18:12	WG1237248
(S) 1,2-Dichloroethane-d4	102			70.0-130		02/10/2019 13:43	WG1235014
(S) 1,2-Dichloroethane-d4	89.8			70.0-130		02/13/2019 16:24	WG1235339
(S) 1,2-Dichloroethane-d4	105			70.0-130		02/14/2019 18:12	WG1237248

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	93.0		1	02/12/2019 18:01	WG1235876

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0170	J	0.0147	0.0269	1	02/14/2019 18:36	WG1237248
Acrylonitrile	U		0.00204	0.0134	1	02/10/2019 14:02	WG1235014
Benzene	0.000690	J	0.000430	0.00108	1	02/10/2019 14:02	WG1235014
Bromobenzene	U		0.00113	0.0134	1	02/10/2019 14:02	WG1235014
Bromodichloromethane	U		0.000847	0.00269	1	02/10/2019 14:02	WG1235014
Bromochloromethane	U		0.00121	0.00538	1	02/10/2019 14:02	WG1235014
Bromoform	U		0.00643	0.0269	1	02/10/2019 14:02	WG1235014
Bromomethane	U		0.00398	0.0134	1	02/10/2019 14:02	WG1235014
n-Butylbenzene	U		0.00413	0.0134	1	02/10/2019 14:02	WG1235014
sec-Butylbenzene	U		0.00272	0.0134	1	02/10/2019 14:02	WG1235014
tert-Butylbenzene	U		0.00167	0.00538	1	02/10/2019 14:02	WG1235014
Carbon disulfide	U		0.00436	0.0134	1	02/10/2019 14:02	WG1235014
Carbon tetrachloride	U		0.00116	0.00538	1	02/10/2019 14:02	WG1235014
Chlorobenzene	U		0.000616	0.00269	1	02/10/2019 14:02	WG1235014
Chlorodibromomethane	U		0.000484	0.00269	1	02/10/2019 14:02	WG1235014
Chloroethane	U		0.00116	0.00538	1	02/10/2019 14:02	WG1235014
Chloroform	U		0.000446	0.00269	1	02/10/2019 14:02	WG1235014
Chloromethane	U		0.00149	0.0134	1	02/10/2019 14:02	WG1235014
2-Chlorotoluene	U		0.000989	0.00269	1	02/10/2019 14:02	WG1235014
4-Chlorotoluene	U		0.00121	0.00538	1	02/10/2019 14:02	WG1235014
1,2-Dibromo-3-Chloropropane	U		0.00548	0.0269	1	02/10/2019 14:02	WG1235014
1,2-Dibromoethane	U		0.000564	0.00269	1	02/10/2019 14:02	WG1235014
Dibromomethane	U		0.00108	0.00538	1	02/10/2019 14:02	WG1235014
1,2-Dichlorobenzene	U		0.00156	0.00538	1	02/10/2019 14:02	WG1235014
1,3-Dichlorobenzene	U		0.00183	0.00538	1	02/10/2019 14:02	WG1235014
1,4-Dichlorobenzene	U		0.00212	0.00538	1	02/10/2019 14:02	WG1235014
Dichlorodifluoromethane	U		0.000879	0.00269	1	02/10/2019 14:02	WG1235014
1,1-Dichloroethane	U		0.000618	0.00269	1	02/10/2019 14:02	WG1235014
1,2-Dichloroethane	U		0.000511	0.00269	1	02/13/2019 16:47	WG1235339
1,1-Dichloroethene	U		0.000538	0.00269	1	02/10/2019 14:02	WG1235014
cis-1,2-Dichloroethene	0.0743		0.000742	0.00269	1	02/10/2019 14:02	WG1235014
trans-1,2-Dichloroethene	0.00183	J	0.00154	0.00538	1	02/10/2019 14:02	WG1235014
1,2-Dichloropropane	U		0.00137	0.00538	1	02/13/2019 16:47	WG1235339
1,1-Dichloropropene	U		0.000753	0.00269	1	02/10/2019 14:02	WG1235014
1,3-Dichloropropane	U		0.00188	0.00538	1	02/10/2019 14:02	WG1235014
cis-1,3-Dichloropropene	U		0.000729	0.00269	1	02/10/2019 14:02	WG1235014
trans-1,3-Dichloropropene	U		0.00164	0.00538	1	02/10/2019 14:02	WG1235014
trans-1,4-Dichloro-2-butene	U		0.00151	0.00538	1	02/10/2019 14:02	WG1235014
2,2-Dichloropropane	U		0.000853	0.00269	1	02/10/2019 14:02	WG1235014
Di-isopropyl ether	U		0.000376	0.00108	1	02/10/2019 14:02	WG1235014
Ethylbenzene	U		0.000570	0.00269	1	02/10/2019 14:02	WG1235014
Hexachloro-1,3-butadiene	U		0.0137	0.0269	1	02/10/2019 14:02	WG1235014
2-Hexanone	U		0.0108	0.0269	1	02/10/2019 14:02	WG1235014
n-Hexane	U		0.00114	0.00538	1	02/10/2019 14:02	WG1235014
Iodomethane	U		0.00650	0.0134	1	02/10/2019 14:02	WG1235014
Isopropylbenzene	U		0.000928	0.00269	1	02/10/2019 14:02	WG1235014
p-Isopropyltoluene	U		0.00250	0.00538	1	02/10/2019 14:02	WG1235014
2-Butanone (MEK)	0.0166	J	0.0134	0.0269	1	02/10/2019 14:02	WG1235014
Methylene Chloride	U		0.00714	0.0269	1	02/10/2019 14:02	WG1235014
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0269	1	02/10/2019 14:02	WG1235014

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/07/19 10:52

L1068436

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	0.000357	U	0.000317	0.00108	1	02/10/2019 14:02	WG1235014
Naphthalene	U		0.00335	0.0134	1	02/10/2019 14:02	WG1235014
n-Propylbenzene	U		0.00127	0.00538	1	02/10/2019 14:02	WG1235014
Styrene	U		0.00293	0.0134	1	02/10/2019 14:02	WG1235014
1,1,1,2-Tetrachloroethane	U		0.000538	0.00269	1	02/10/2019 14:02	WG1235014
1,1,2,2-Tetrachloroethane	U		0.000419	0.00269	1	02/10/2019 14:02	WG1235014
1,1,2-Trichlorotrifluoroethane	U		0.000726	0.00269	1	02/10/2019 14:02	WG1235014
Tetrachloroethene	0.415		0.000753	0.00269	1	02/10/2019 14:02	WG1235014
Toluene	0.00174	U	0.00134	0.00538	1	02/10/2019 14:02	WG1235014
1,2,3-Trichlorobenzene	U		0.000672	0.00269	1	02/10/2019 14:02	WG1235014
1,2,4-Trichlorobenzene	U		0.00518	0.0134	1	02/10/2019 14:02	WG1235014
1,1,1-Trichloroethane	U		0.000296	0.00269	1	02/10/2019 14:02	WG1235014
1,1,2-Trichloroethane	U		0.000949	0.00269	1	02/10/2019 14:02	WG1235014
Trichloroethene	0.0656		0.000430	0.00108	1	02/10/2019 14:02	WG1235014
Trichlorofluoromethane	U		0.000538	0.00269	1	02/10/2019 14:02	WG1235014
1,2,3-Trichloropropane	U		0.00548	0.0134	1	02/10/2019 14:02	WG1235014
1,2,4-Trimethylbenzene	U		0.00125	0.00538	1	02/10/2019 14:02	WG1235014
1,2,3-Trimethylbenzene	U		0.00124	0.00538	1	02/10/2019 14:02	WG1235014
1,3,5-Trimethylbenzene	U		0.00116	0.00538	1	02/10/2019 14:02	WG1235014
Vinyl acetate	U		0.00378	0.0134	1	02/10/2019 14:02	WG1235014
Vinyl chloride	0.0124		0.000734	0.00269	1	02/10/2019 14:02	WG1235014
Xylenes, Total	U		0.00514	0.00699	1	02/10/2019 14:02	WG1235014
(S) Toluene-d8	103			75.0-131		02/10/2019 14:02	WG1235014
(S) Toluene-d8	94.9			75.0-131		02/13/2019 16:47	WG1235339
(S) Toluene-d8	103			75.0-131		02/14/2019 18:36	WG1237248
(S) 4-Bromofluorobenzene	99.5			67.0-138		02/10/2019 14:02	WG1235014
(S) 4-Bromofluorobenzene	94.9			67.0-138		02/13/2019 16:47	WG1235339
(S) 4-Bromofluorobenzene	101			67.0-138		02/14/2019 18:36	WG1237248
(S) 1,2-Dichloroethane-d4	103			70.0-130		02/10/2019 14:02	WG1235014
(S) 1,2-Dichloroethane-d4	95.1			70.0-130		02/13/2019 16:47	WG1235339
(S) 1,2-Dichloroethane-d4	109			70.0-130		02/14/2019 18:36	WG1237248

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.9		1	02/12/2019 18:01	WG1235876

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0147	0.0269	1	02/14/2019 19:00	WG1237248
Acrylonitrile	U		0.00204	0.0135	1	02/10/2019 14:21	WG1235014
Benzene	0.000725	J	0.000431	0.00108	1	02/10/2019 14:21	WG1235014
Bromobenzene	U		0.00113	0.0135	1	02/10/2019 14:21	WG1235014
Bromodichloromethane	U		0.000848	0.00269	1	02/10/2019 14:21	WG1235014
Bromochloromethane	U		0.00122	0.00538	1	02/10/2019 14:21	WG1235014
Bromoform	U		0.00644	0.0269	1	02/10/2019 14:21	WG1235014
Bromomethane	U		0.00398	0.0135	1	02/10/2019 14:21	WG1235014
n-Butylbenzene	U		0.00413	0.0135	1	02/10/2019 14:21	WG1235014
sec-Butylbenzene	U		0.00272	0.0135	1	02/10/2019 14:21	WG1235014
tert-Butylbenzene	U		0.00167	0.00538	1	02/10/2019 14:21	WG1235014
Carbon disulfide	U		0.00437	0.0135	1	02/10/2019 14:21	WG1235014
Carbon tetrachloride	U		0.00116	0.00538	1	02/10/2019 14:21	WG1235014
Chlorobenzene	U		0.000617	0.00269	1	02/10/2019 14:21	WG1235014
Chlorodibromomethane	U		0.000484	0.00269	1	02/10/2019 14:21	WG1235014
Chloroethane	U		0.00116	0.00538	1	02/10/2019 14:21	WG1235014
Chloroform	U		0.000447	0.00269	1	02/10/2019 14:21	WG1235014
Chloromethane	U		0.00150	0.0135	1	02/10/2019 14:21	WG1235014
2-Chlorotoluene	U		0.000990	0.00269	1	02/10/2019 14:21	WG1235014
4-Chlorotoluene	U		0.00122	0.00538	1	02/10/2019 14:21	WG1235014
1,2-Dibromo-3-Chloropropane	U		0.00549	0.0269	1	02/10/2019 14:21	WG1235014
1,2-Dibromoethane	U		0.000565	0.00269	1	02/10/2019 14:21	WG1235014
Dibromomethane	U		0.00108	0.00538	1	02/10/2019 14:21	WG1235014
1,2-Dichlorobenzene	U		0.00156	0.00538	1	02/10/2019 14:21	WG1235014
1,3-Dichlorobenzene	U		0.00183	0.00538	1	02/10/2019 14:21	WG1235014
1,4-Dichlorobenzene	U		0.00212	0.00538	1	02/10/2019 14:21	WG1235014
Dichlorodifluoromethane	U		0.000880	0.00269	1	02/10/2019 14:21	WG1235014
1,1-Dichloroethane	U		0.000619	0.00269	1	02/10/2019 14:21	WG1235014
1,2-Dichloroethane	U		0.000511	0.00269	1	02/13/2019 17:09	WG1235339
1,1-Dichloroethene	U		0.000538	0.00269	1	02/10/2019 14:21	WG1235014
cis-1,2-Dichloroethene	0.0869		0.000743	0.00269	1	02/10/2019 14:21	WG1235014
trans-1,2-Dichloroethene	0.00208	J	0.00154	0.00538	1	02/10/2019 14:21	WG1235014
1,2-Dichloropropane	U		0.00137	0.00538	1	02/13/2019 17:09	WG1235339
1,1-Dichloropropene	U		0.000753	0.00269	1	02/10/2019 14:21	WG1235014
1,3-Dichloropropane	U		0.00188	0.00538	1	02/10/2019 14:21	WG1235014
cis-1,3-Dichloropropene	U		0.000730	0.00269	1	02/10/2019 14:21	WG1235014
trans-1,3-Dichloropropene	U		0.00165	0.00538	1	02/10/2019 14:21	WG1235014
trans-1,4-Dichloro-2-butene	U		0.00151	0.00538	1	02/10/2019 14:21	WG1235014
2,2-Dichloropropane	U		0.000854	0.00269	1	02/10/2019 14:21	WG1235014
Di-isopropyl ether	U		0.000377	0.00108	1	02/10/2019 14:21	WG1235014
Ethylbenzene	U		0.000570	0.00269	1	02/10/2019 14:21	WG1235014
Hexachloro-1,3-butadiene	U		0.0137	0.0269	1	02/10/2019 14:21	WG1235014
2-Hexanone	U		0.0108	0.0269	1	02/10/2019 14:21	WG1235014
n-Hexane	0.00505	B J	0.00114	0.00538	1	02/10/2019 14:21	WG1235014
Iodomethane	U		0.00651	0.0135	1	02/10/2019 14:21	WG1235014
Isopropylbenzene	U		0.000929	0.00269	1	02/10/2019 14:21	WG1235014
p-Isopropyltoluene	U		0.00251	0.00538	1	02/10/2019 14:21	WG1235014
2-Butanone (MEK)	0.0156	J	0.0135	0.0269	1	02/10/2019 14:21	WG1235014
Methylene Chloride	U		0.00715	0.0269	1	02/10/2019 14:21	WG1235014
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0269	1	02/10/2019 14:21	WG1235014

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/07/19 13:00

L1068436

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000318	0.00108	1	02/10/2019 14:21	WG1235014
Naphthalene	U		0.00336	0.0135	1	02/10/2019 14:21	WG1235014
n-Propylbenzene	U		0.00127	0.00538	1	02/10/2019 14:21	WG1235014
Styrene	U		0.00294	0.0135	1	02/10/2019 14:21	WG1235014
1,1,1,2-Tetrachloroethane	U		0.000538	0.00269	1	02/10/2019 14:21	WG1235014
1,1,2,2-Tetrachloroethane	U		0.000420	0.00269	1	02/10/2019 14:21	WG1235014
1,1,2-Trichlorotrifluoroethane	U		0.000727	0.00269	1	02/10/2019 14:21	WG1235014
Tetrachloroethene	0.387		0.000753	0.00269	1	02/10/2019 14:21	WG1235014
Toluene	0.00181	J	0.00135	0.00538	1	02/10/2019 14:21	WG1235014
1,2,3-Trichlorobenzene	U		0.000673	0.00269	1	02/10/2019 14:21	WG1235014
1,2,4-Trichlorobenzene	U		0.00519	0.0135	1	02/10/2019 14:21	WG1235014
1,1,1-Trichloroethane	U		0.000296	0.00269	1	02/10/2019 14:21	WG1235014
1,1,2-Trichloroethane	U		0.000950	0.00269	1	02/10/2019 14:21	WG1235014
Trichloroethene	0.0732		0.000431	0.00108	1	02/10/2019 14:21	WG1235014
Trichlorofluoromethane	U		0.000538	0.00269	1	02/10/2019 14:21	WG1235014
1,2,3-Trichloropropane	U		0.00549	0.0135	1	02/10/2019 14:21	WG1235014
1,2,4-Trimethylbenzene	U		0.00125	0.00538	1	02/10/2019 14:21	WG1235014
1,2,3-Trimethylbenzene	U		0.00124	0.00538	1	02/10/2019 14:21	WG1235014
1,3,5-Trimethylbenzene	U		0.00116	0.00538	1	02/10/2019 14:21	WG1235014
Vinyl acetate	U		0.00379	0.0135	1	02/10/2019 14:21	WG1235014
Vinyl chloride	0.0181		0.000735	0.00269	1	02/10/2019 14:21	WG1235014
Xylenes, Total	U		0.00514	0.00700	1	02/10/2019 14:21	WG1235014
(S) Toluene-d8	101			75.0-131		02/10/2019 14:21	WG1235014
(S) Toluene-d8	99.1			75.0-131		02/13/2019 17:09	WG1235339
(S) Toluene-d8	104			75.0-131		02/14/2019 19:00	WG1237248
(S) 4-Bromofluorobenzene	97.4			67.0-138		02/10/2019 14:21	WG1235014
(S) 4-Bromofluorobenzene	93.4			67.0-138		02/13/2019 17:09	WG1235339
(S) 4-Bromofluorobenzene	98.5			67.0-138		02/14/2019 19:00	WG1237248
(S) 1,2-Dichloroethane-d4	101			70.0-130		02/10/2019 14:21	WG1235014
(S) 1,2-Dichloroethane-d4	89.9			70.0-130		02/13/2019 17:09	WG1235339
(S) 1,2-Dichloroethane-d4	105			70.0-130		02/14/2019 19:00	WG1237248

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	
Acetone	1.08	J	1.05	25.0	1	02/10/2019 01:35	WG1234855
Acrylonitrile	U		0.873	5.00	1	02/10/2019 01:35	WG1234855
Benzene	U		0.0896	0.500	1	02/10/2019 01:35	WG1234855
Bromobenzene	U		0.133	0.500	1	02/10/2019 01:35	WG1234855
Bromodichloromethane	U		0.0800	0.500	1	02/10/2019 01:35	WG1234855
Bromochloromethane	U		0.145	0.500	1	02/10/2019 01:35	WG1234855
Bromoform	U		0.186	0.500	1	02/10/2019 01:35	WG1234855
Bromomethane	U		0.157	2.50	1	02/10/2019 01:35	WG1234855
n-Butylbenzene	U		0.143	0.500	1	02/10/2019 01:35	WG1234855
sec-Butylbenzene	U		0.134	0.500	1	02/10/2019 01:35	WG1234855
tert-Butylbenzene	U		0.183	0.500	1	02/10/2019 01:35	WG1234855
Carbon disulfide	U		0.101	0.500	1	02/10/2019 01:35	WG1234855
Carbon tetrachloride	U		0.159	0.500	1	02/10/2019 01:35	WG1234855
Chlorobenzene	U		0.140	0.500	1	02/10/2019 01:35	WG1234855
Chlorodibromomethane	U		0.128	0.500	1	02/10/2019 01:35	WG1234855
Chloroethane	U		0.141	2.50	1	02/10/2019 01:35	WG1234855
Chloroform	U		0.0860	0.500	1	02/10/2019 01:35	WG1234855
Chloromethane	U		0.153	1.25	1	02/10/2019 01:35	WG1234855
2-Chlorotoluene	U		0.111	0.500	1	02/10/2019 01:35	WG1234855
4-Chlorotoluene	U		0.0972	0.500	1	02/10/2019 01:35	WG1234855
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/10/2019 01:35	WG1234855
1,2-Dibromoethane	U		0.193	0.500	1	02/10/2019 01:35	WG1234855
Dibromomethane	U		0.117	0.500	1	02/10/2019 01:35	WG1234855
1,2-Dichlorobenzene	U		0.101	0.500	1	02/10/2019 01:35	WG1234855
1,3-Dichlorobenzene	U		0.130	0.500	1	02/10/2019 01:35	WG1234855
1,4-Dichlorobenzene	U		0.121	0.500	1	02/10/2019 01:35	WG1234855
Dichlorodifluoromethane	U		0.127	2.50	1	02/10/2019 01:35	WG1234855
1,1-Dichloroethane	U		0.114	0.500	1	02/10/2019 01:35	WG1234855
1,2-Dichloroethane	U		0.108	0.500	1	02/10/2019 01:35	WG1234855
1,1-Dichloroethene	U		0.188	0.500	1	02/10/2019 01:35	WG1234855
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/10/2019 01:35	WG1234855
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/10/2019 01:35	WG1234855
1,2-Dichloropropane	U		0.190	0.500	1	02/10/2019 01:35	WG1234855
1,1-Dichloropropene	U		0.128	0.500	1	02/10/2019 01:35	WG1234855
1,3-Dichloropropane	U		0.147	1.00	1	02/10/2019 01:35	WG1234855
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/10/2019 01:35	WG1234855
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/10/2019 01:35	WG1234855
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/10/2019 01:35	WG1234855
2,2-Dichloropropane	U		0.0929	0.500	1	02/10/2019 01:35	WG1234855
Di-isopropyl ether	U		0.0924	0.500	1	02/10/2019 01:35	WG1234855
Ethylbenzene	U		0.158	0.500	1	02/10/2019 01:35	WG1234855
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/10/2019 01:35	WG1234855
2-Hexanone	U		0.757	5.00	1	02/10/2019 01:35	WG1234855
n-Hexane	U		0.305	5.00	1	02/10/2019 01:35	WG1234855
Iodomethane	U		0.377	10.0	1	02/10/2019 01:35	WG1234855
Isopropylbenzene	U		0.126	0.500	1	02/10/2019 01:35	WG1234855
p-Isopropyltoluene	U		0.138	0.500	1	02/10/2019 01:35	WG1234855
2-Butanone (MEK)	U		1.28	5.00	1	02/10/2019 01:35	WG1234855
Methylene Chloride	U		1.07	2.50	1	02/10/2019 01:35	WG1234855
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/10/2019 01:35	WG1234855
Methyl tert-butyl ether	U		0.102	0.500	1	02/10/2019 01:35	WG1234855
Naphthalene	U		0.174	2.50	1	02/10/2019 01:35	WG1234855
n-Propylbenzene	U		0.162	0.500	1	02/10/2019 01:35	WG1234855
Styrene	U		0.117	0.500	1	02/10/2019 01:35	WG1234855
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/10/2019 01:35	WG1234855
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/10/2019 01:35	WG1234855

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	02/10/2019 01:35	WG1234855
Tetrachloroethene	U		0.199	0.500	1	02/10/2019 01:35	WG1234855
Toluene	U		0.412	0.500	1	02/10/2019 01:35	WG1234855
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/10/2019 01:35	WG1234855
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/10/2019 01:35	WG1234855
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/10/2019 01:35	WG1234855
1,1,2-Trichloroethane	U		0.186	0.500	1	02/10/2019 01:35	WG1234855
Trichloroethene	U		0.153	0.500	1	02/10/2019 01:35	WG1234855
Trichlorofluoromethane	U		0.130	2.50	1	02/10/2019 01:35	WG1234855
1,2,3-Trichloropropane	U		0.247	2.50	1	02/10/2019 01:35	WG1234855
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/10/2019 01:35	WG1234855
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/10/2019 01:35	WG1234855
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/10/2019 01:35	WG1234855
Vinyl acetate	U	<u>JO</u>	0.645	5.00	1	02/10/2019 01:35	WG1234855
Vinyl chloride	U		0.118	0.500	1	02/10/2019 01:35	WG1234855
Xylenes, Total	U		0.316	1.50	1	02/10/2019 01:35	WG1234855
(S) Toluene-d8	101			80.0-120		02/10/2019 01:35	WG1234855
(S) 4-Bromofluorobenzene	104			77.0-126		02/10/2019 01:35	WG1234855
(S) 1,2-Dichloroethane-d4	107			70.0-130		02/10/2019 01:35	WG1234855

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

[L1068436-01,02,03](#)

Method Blank (MB)

(MB) R3383327-1 02/12/19 18:13

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

L1068426-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1068426-06 02/12/19 18:13 • (DUP) R3383327-3 02/12/19 18:13

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	92.0	91.1	1	0.980		10

Laboratory Control Sample (LCS)

(LCS) R3383327-2 02/12/19 18:13

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3383322-1 02/12/19 18:01

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

L1068436-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1068436-06 02/12/19 18:01 • (DUP) R3383322-3 02/12/19 18:01

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	93.2	93.5	1	0.302		10

Laboratory Control Sample (LCS)

(LCS) R3383322-2 02/12/19 18:01

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	



Method Blank (MB)

(MB) R3382790-3 02/09/19 22:39

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
Carbon disulfide	U		0.101	0.500
n-Butylbenzene	U		0.143	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
trans-1,4-Dichloro-2-butene	U		0.257	5.00
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
2-Hexanone	U		0.757	5.00
trans-1,3-Dichloropropene	U		0.222	0.500
2,2-Dichloropropane	U		0.0929	0.500

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3382790-3 02/09/19 22:39

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Di-isopropyl ether	U		0.0924	0.500
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	0.294	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
Vinyl acetate	U		0.645	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
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 chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	98.9			80.0-120
(S) 4-Bromofluorobenzene	104			77.0-126
(S) 1,2-Dichloroethane-d4	103			70.0-130

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3382790-1 02/09/19 21:40 • (LCSD) R3382790-2 02/09/19 22:00

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	24.8	24.4	99.1	97.7	76.0-122			1.42	20
Carbon disulfide	25.0	24.1	24.3	96.5	97.2	61.0-128			0.718	20
trans-1,4-Dichloro-2-butene	25.0	25.9	26.7	104	107	33.0-144			2.89	20
2-Hexanone	125	118	118	94.4	94.3	67.0-149			0.113	20
Acetone	125	169	166	136	133	19.0-160			2.10	27
n-Hexane	25.0	21.4	21.4	85.4	85.7	57.0-133			0.298	20
Iodomethane	125	125	126	100	101	33.0-147			0.176	26
Acrylonitrile	125	132	131	106	105	55.0-149			1.08	20
Benzene	25.0	23.4	23.3	93.8	93.3	70.0-123			0.461	20
Bromobenzene	25.0	20.7	20.8	82.8	83.3	73.0-121			0.558	20
Bromodichloromethane	25.0	22.8	22.5	91.3	90.2	75.0-120			1.25	20
Bromoform	25.0	23.9	23.8	95.8	95.0	68.0-132			0.806	20
Bromomethane	25.0	27.0	26.7	108	107	10.0-160			1.16	25
n-Butylbenzene	25.0	22.7	23.1	90.7	92.5	73.0-125			1.98	20
sec-Butylbenzene	25.0	21.7	22.3	86.8	89.2	75.0-125			2.71	20
tert-Butylbenzene	25.0	20.9	21.2	83.4	84.8	76.0-124			1.62	20
Carbon tetrachloride	25.0	23.1	23.4	92.3	93.6	68.0-126			1.37	20
Chlorobenzene	25.0	22.3	22.8	89.3	91.1	80.0-121			1.95	20
Chlorodibromomethane	25.0	22.2	22.0	89.0	88.1	77.0-125			0.976	20
Chloroethane	25.0	29.1	28.9	116	116	47.0-150			0.801	20
Chloroform	25.0	24.1	23.8	96.5	95.3	73.0-120			1.31	20
Chloromethane	25.0	31.3	31.6	125	126	41.0-142			0.853	20
2-Chlorotoluene	25.0	20.3	20.8	81.3	83.2	76.0-123			2.28	20
4-Chlorotoluene	25.0	20.4	21.1	81.8	84.2	75.0-122			2.96	20
1,2-Dibromo-3-Chloropropane	25.0	24.2	23.7	96.7	95.0	58.0-134			1.75	20
1,2-Dibromoethane	25.0	22.1	22.0	88.5	88.1	80.0-122			0.401	20
Dibromomethane	25.0	24.2	23.9	97.0	95.7	80.0-120			1.30	20
1,2-Dichlorobenzene	25.0	22.9	23.0	91.6	92.1	79.0-121			0.509	20
Vinyl acetate	125	115	95.4	92.1	76.3	11.0-160			18.7	20
1,3-Dichlorobenzene	25.0	21.9	22.5	87.5	89.9	79.0-120			2.71	20
1,4-Dichlorobenzene	25.0	20.8	21.4	83.3	85.7	79.0-120			2.86	20
Dichlorodifluoromethane	25.0	29.3	28.9	117	116	51.0-149			1.35	20
1,1-Dichloroethane	25.0	23.4	23.4	93.5	93.6	70.0-126			0.162	20
1,2-Dichloroethane	25.0	23.9	23.7	95.7	94.8	70.0-128			0.913	20
1,1-Dichloroethene	25.0	24.3	24.4	97.1	97.4	71.0-124			0.310	20
cis-1,2-Dichloroethene	25.0	24.2	24.4	96.7	97.4	73.0-120			0.748	20
trans-1,2-Dichloroethene	25.0	23.1	23.1	92.3	92.4	73.0-120			0.188	20
1,2-Dichloropropane	25.0	22.9	22.8	91.6	91.2	77.0-125			0.408	20
1,1-Dichloropropene	25.0	23.7	24.0	94.7	96.0	74.0-126			1.37	20
1,3-Dichloropropane	25.0	21.9	21.7	87.8	87.0	80.0-120			0.931	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



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

(LCS) R3382790-1 02/09/19 21:40 • (LCSD) R3382790-2 02/09/19 22:00

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	23.0	22.8	91.9	91.1	80.0-123			0.951	20
trans-1,3-Dichloropropene	25.0	22.6	22.5	90.6	90.1	78.0-124			0.511	20
2,2-Dichloropropane	25.0	23.8	22.8	95.1	91.2	58.0-130			4.23	20
Di-isopropyl ether	25.0	25.3	25.3	101	101	58.0-138			0.351	20
Ethylbenzene	25.0	21.9	22.4	87.5	89.6	79.0-123			2.35	20
Hexachloro-1,3-butadiene	25.0	23.4	24.4	93.5	97.5	54.0-138			4.18	20
Isopropylbenzene	25.0	23.3	23.6	93.1	94.5	76.0-127			1.50	20
p-Isopropyltoluene	25.0	21.8	22.4	87.3	89.4	76.0-125			2.41	20
2-Butanone (MEK)	125	138	138	110	110	44.0-160			0.207	20
Methylene Chloride	25.0	23.6	23.8	94.2	95.2	67.0-120			0.981	20
4-Methyl-2-pentanone (MIBK)	125	128	126	102	100	68.0-142			1.59	20
Methyl tert-butyl ether	25.0	25.1	24.7	100	98.6	68.0-125			1.57	20
Naphthalene	25.0	23.6	23.5	94.3	93.9	54.0-135			0.423	20
n-Propylbenzene	25.0	20.7	21.1	82.9	84.6	77.0-124			1.95	20
Styrene	25.0	23.0	23.2	92.1	93.0	73.0-130			1.00	20
1,1,1,2-Tetrachloroethane	25.0	23.1	23.2	92.4	92.8	75.0-125			0.449	20
1,1,2,2-Tetrachloroethane	25.0	22.4	21.7	89.8	86.7	65.0-130			3.45	20
1,1,2-Trichlorotrifluoroethane	25.0	23.0	22.6	91.8	90.4	69.0-132			1.51	20
Tetrachloroethene	25.0	21.7	22.2	86.8	88.9	72.0-132			2.38	20
Toluene	25.0	21.4	21.8	85.6	87.0	79.0-120			1.61	20
1,2,3-Trichlorobenzene	25.0	24.8	25.5	99.0	102	50.0-138			3.15	20
1,2,4-Trichlorobenzene	25.0	25.2	25.5	101	102	57.0-137			1.05	20
1,1,1-Trichloroethane	25.0	23.6	23.9	94.4	95.6	73.0-124			1.30	20
1,1,2-Trichloroethane	25.0	22.6	22.5	90.5	89.9	80.0-120			0.736	20
Trichloroethene	25.0	22.5	23.5	89.9	93.9	78.0-124			4.33	20
Trichlorofluoromethane	25.0	26.1	26.3	105	105	59.0-147			0.508	20
1,2,3-Trichloropropane	25.0	22.0	21.7	88.2	86.9	73.0-130			1.51	20
1,2,4-Trimethylbenzene	25.0	22.0	22.6	88.0	90.3	76.0-121			2.56	20
1,2,3-Trimethylbenzene	25.0	21.5	21.5	85.9	86.0	77.0-120			0.0131	20
1,3,5-Trimethylbenzene	25.0	21.2	21.7	84.8	86.6	76.0-122			2.18	20
Vinyl chloride	25.0	26.0	25.6	104	103	67.0-131			1.49	20
Xylenes, Total	75.0	67.3	68.2	89.7	90.9	79.0-123			1.33	20
(S) Toluene-d8				96.4	95.5	80.0-120				
(S) 4-Bromofluorobenzene				104	103	77.0-126				
(S) 1,2-Dichloroethane-d4				105	101	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3382674-3 02/10/19 10:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250
n-Hexane	0.00356	U	0.00106	0.00500

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3382674-3 02/10/19 10:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	0.0115	U	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	107			75.0-131
(S) 4-Bromofluorobenzene	95.7			67.0-138
(S) 1,2-Dichloroethane-d4	97.4			70.0-130

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



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

(LCS) R3382674-1 02/10/19 09:44 • (LCSD) R3382674-2 02/10/19 10:03

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 %
Acrylonitrile	0.625	0.701	0.660	112	106	45.0-153			5.98	22
Benzene	0.125	0.113	0.113	90.6	90.2	70.0-123			0.418	20
Bromobenzene	0.125	0.144	0.148	115	118	73.0-121			2.39	20
Bromodichloromethane	0.125	0.143	0.139	115	111	73.0-121			2.93	20
Bromochloromethane	0.125	0.152	0.152	122	121	77.0-128			0.515	20
Bromoform	0.125	0.125	0.128	99.9	102	64.0-132			2.16	20
Bromomethane	0.125	0.0975	0.0953	78.0	76.2	56.0-147			2.30	20
n-Butylbenzene	0.125	0.0929	0.0967	74.3	77.4	68.0-135			4.01	20
sec-Butylbenzene	0.125	0.117	0.120	93.6	96.3	74.0-130			2.78	20
tert-Butylbenzene	0.125	0.117	0.122	94.0	97.2	75.0-127			3.44	20
Carbon disulfide	0.125	0.115	0.114	92.3	90.9	56.0-133			1.59	20
Carbon tetrachloride	0.125	0.147	0.147	118	117	66.0-128			0.155	20
Chlorobenzene	0.125	0.111	0.112	88.5	89.7	76.0-128			1.41	20
Chlorodibromomethane	0.125	0.138	0.139	110	111	74.0-127			0.354	20
Chloroethane	0.125	0.106	0.0977	84.6	78.2	61.0-134			7.87	20
Chloroform	0.125	0.104	0.104	83.2	83.0	72.0-123			0.317	20
Chloromethane	0.125	0.118	0.113	94.5	90.1	51.0-138			4.77	20
2-Chlorotoluene	0.125	0.150	0.153	120	123	75.0-124			2.04	20
4-Chlorotoluene	0.125	0.111	0.115	88.5	91.9	75.0-124			3.78	20
1,2-Dibromo-3-Chloropropane	0.125	0.127	0.133	102	106	59.0-130			4.28	20
1,2-Dibromoethane	0.125	0.145	0.147	116	117	74.0-128			0.940	20
Dibromomethane	0.125	0.127	0.126	102	101	75.0-122			1.09	20
1,2-Dichlorobenzene	0.125	0.0959	0.0972	76.7	77.8	76.0-124			1.32	20
1,3-Dichlorobenzene	0.125	0.111	0.113	88.5	90.0	76.0-125			1.73	20
1,4-Dichlorobenzene	0.125	0.111	0.113	88.6	90.2	77.0-121			1.78	20
trans-1,4-Dichloro-2-butene	0.125	0.120	0.118	95.9	94.0	45.0-143			1.92	20
Dichlorodifluoromethane	0.125	0.135	0.121	108	96.9	43.0-156			10.9	20
1,1-Dichloroethane	0.125	0.120	0.120	96.3	96.3	70.0-127			0.0748	20
1,1-Dichloroethene	0.125	0.116	0.117	93.0	93.9	65.0-131			0.958	20
cis-1,2-Dichloroethene	0.125	0.109	0.107	87.3	85.9	73.0-125			1.57	20
trans-1,2-Dichloroethene	0.125	0.115	0.116	92.2	92.9	71.0-125			0.831	20
1,1-Dichloropropene	0.125	0.105	0.106	84.2	84.9	73.0-125			0.812	20
1,3-Dichloropropane	0.125	0.126	0.129	101	103	80.0-125			2.48	20
cis-1,3-Dichloropropene	0.125	0.107	0.108	85.6	86.3	76.0-127			0.920	20
trans-1,3-Dichloropropene	0.125	0.116	0.117	92.7	93.5	73.0-127			0.956	20
2,2-Dichloropropane	0.125	0.107	0.105	85.3	84.3	59.0-135			1.14	20
Di-isopropyl ether	0.125	0.0987	0.0968	78.9	77.4	60.0-136			1.93	20
Ethylbenzene	0.125	0.116	0.117	92.8	93.8	74.0-126			1.07	20
Hexachloro-1,3-butadiene	0.125	0.106	0.105	84.5	83.9	57.0-150			0.714	20
2-Hexanone	0.625	0.759	0.758	121	121	54.0-147			0.0851	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



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

(LCS) R3382674-1 02/10/19 09:44 • (LCSD) R3382674-2 02/10/19 10:03

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 %
n-Hexane	0.125	0.107	0.111	85.6	88.7	55.0-137			3.59	20
Iodomethane	0.625	0.607	0.598	97.2	95.6	74.0-134			1.61	20
Isopropylbenzene	0.125	0.110	0.108	88.2	86.0	72.0-127			2.54	20
p-Isopropyltoluene	0.125	0.113	0.114	90.4	91.2	72.0-133			0.894	20
2-Butanone (MEK)	0.625	0.663	0.661	106	106	30.0-160			0.427	24
Methylene Chloride	0.125	0.114	0.109	91.0	87.2	68.0-123			4.21	20
4-Methyl-2-pentanone (MIBK)	0.625	0.503	0.492	80.5	78.7	56.0-143			2.24	20
Methyl tert-butyl ether	0.125	0.0965	0.0967	77.2	77.4	66.0-132			0.235	20
Naphthalene	0.125	0.122	0.126	97.5	101	59.0-130			3.11	20
n-Propylbenzene	0.125	0.107	0.111	85.7	89.2	74.0-126			3.98	20
Styrene	0.125	0.135	0.134	108	107	72.0-127			1.08	20
1,1,1,2-Tetrachloroethane	0.125	0.108	0.105	86.4	84.0	74.0-129			2.84	20
1,1,2,2-Tetrachloroethane	0.125	0.102	0.100	81.3	80.0	68.0-128			1.56	20
Tetrachloroethene	0.125	0.121	0.120	97.0	96.4	70.0-136			0.664	20
Toluene	0.125	0.107	0.108	86.0	86.3	75.0-121			0.371	20
1,1,2-Trichlorotrifluoroethane	0.125	0.132	0.125	106	100	61.0-139			5.46	20
1,2,3-Trichlorobenzene	0.125	0.103	0.106	82.3	84.9	59.0-139			3.14	20
1,2,4-Trichlorobenzene	0.125	0.142	0.144	114	115	62.0-137			1.02	20
1,1,1-Trichloroethane	0.125	0.120	0.121	96.0	96.8	69.0-126			0.744	20
1,1,2-Trichloroethane	0.125	0.144	0.141	115	113	78.0-123			2.10	20
Trichloroethene	0.125	0.149	0.150	119	120	76.0-126			0.627	20
Trichlorofluoromethane	0.125	0.110	0.112	88.2	89.8	61.0-142			1.76	20
1,2,3-Trichloropropane	0.125	0.119	0.124	95.1	99.2	67.0-129			4.27	20
1,2,3-Trimethylbenzene	0.125	0.107	0.111	85.8	89.2	74.0-124			3.83	20
1,2,4-Trimethylbenzene	0.125	0.112	0.113	89.7	90.0	70.0-126			0.366	20
1,3,5-Trimethylbenzene	0.125	0.106	0.109	85.1	87.5	73.0-127			2.72	20
Vinyl acetate	0.625	0.617	0.603	98.8	96.4	43.0-159			2.42	20
Vinyl chloride	0.125	0.0952	0.0989	76.2	79.1	63.0-134			3.80	20
Xylenes, Total	0.375	0.335	0.337	89.3	89.9	72.0-127			0.595	20
(S) Toluene-d8				98.9	100	75.0-131				
(S) 4-Bromofluorobenzene				98.4	97.6	67.0-138				
(S) 1,2-Dichloroethane-d4				106	107	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1068608-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1068608-07 02/10/19 18:22 • (MS) R3382674-4 02/10/19 19:37 • (MSD) R3382674-5 02/10/19 19:56

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 %
Benzene	0.125	U	0.0694	0.0570	55.5	45.6	1	10.0-149			19.6	37
Acrylonitrile	0.625	U	0.412	0.572	65.9	91.5	1	10.0-160			32.5	40
Bromodichloromethane	0.125	U	0.112	0.104	89.2	83.3	1	10.0-143			6.81	37
Bromobenzene	0.125	U	0.122	0.112	97.9	89.4	1	10.0-156			9.17	38
Bromochloromethane	0.125	U	0.0896	0.0926	71.7	74.1	1	10.0-155			3.31	33
Bromoform	0.125	U	0.0987	0.110	78.9	87.7	1	10.0-146			10.5	36
Bromomethane	0.125	U	0.0368	0.0282	29.4	22.6	1	10.0-149			26.3	38
n-Butylbenzene	0.125	U	0.0766	0.0658	61.3	52.7	1	10.0-160			15.1	40
Carbon disulfide	0.125	U	0.0258	0.0182	20.6	14.5	1	10.0-145			34.5	39
sec-Butylbenzene	0.125	U	0.0938	0.0783	75.1	62.7	1	10.0-159			18.0	39
Carbon tetrachloride	0.125	U	0.0785	0.0547	62.8	43.7	1	10.0-145			35.8	37
tert-Butylbenzene	0.125	U	0.0963	0.0762	77.0	60.9	1	10.0-156			23.3	39
Chlorobenzene	0.125	U	0.0843	0.0706	67.4	56.5	1	10.0-152			17.7	39
Chlorodibromomethane	0.125	U	0.112	0.114	89.8	91.2	1	10.0-146			1.53	37
Chloroethane	0.125	U	0.0315	0.0215	25.2	17.2	1	10.0-146			37.7	40
Chloroform	0.125	U	0.0686	0.0612	54.9	49.0	1	10.0-146			11.4	37
Chloromethane	0.125	U	0.0428	0.0285	34.2	22.8	1	10.0-159		J3	40.0	37
1,2-Dibromo-3-Chloropropane	0.125	U	0.0958	0.115	76.7	92.0	1	10.0-151			18.2	39
2-Chlorotoluene	0.125	U	0.115	0.101	92.0	81.2	1	10.0-159			12.5	38
1,2-Dibromoethane	0.125	U	0.118	0.125	94.5	100	1	10.0-148			5.77	34
4-Chlorotoluene	0.125	U	0.0937	0.0780	75.0	62.4	1	10.0-155			18.3	39
1,2-Dichlorobenzene	0.125	U	0.0809	0.0797	64.7	63.8	1	10.0-155			1.40	37
1,3-Dichlorobenzene	0.125	U	0.0954	0.0840	76.3	67.2	1	10.0-153			12.7	38
Dibromomethane	0.125	U	0.0884	0.0990	70.7	79.2	1	10.0-147			11.2	35
1,4-Dichlorobenzene	0.125	U	0.0962	0.0862	76.9	68.9	1	10.0-151			10.9	38
Dichlorodifluoromethane	0.125	U	0.0489	0.0347	39.2	27.8	1	10.0-160			34.0	35
trans-1,4-Dichloro-2-butene	0.125	U	0.102	0.112	81.5	89.6	1	10.0-152			9.51	36
1,1-Dichloroethane	0.125	U	0.0755	0.0615	60.4	49.2	1	10.0-147			20.4	37
1,1-Dichloroethene	0.125	U	0.0562	0.0362	44.9	28.9	1	10.0-155		J3	43.3	37
cis-1,2-Dichloroethene	0.125	U	0.0632	0.0545	50.6	43.6	1	10.0-149			14.8	37
trans-1,2-Dichloroethene	0.125	U	0.0512	0.0402	41.0	32.1	1	10.0-150			24.2	37
1,1-Dichloropropene	0.125	U	0.0572	0.0400	45.8	32.0	1	10.0-153		J3	35.4	35
cis-1,3-Dichloropropene	0.125	U	0.0838	0.0755	67.0	60.4	1	10.0-151			10.4	37
1,3-Dichloropropane	0.125	U	0.116	0.115	92.5	91.8	1	10.0-154			0.757	35
trans-1,3-Dichloropropene	0.125	U	0.0991	0.0984	79.3	78.7	1	10.0-148			0.772	37
2,2-Dichloropropane	0.125	U	0.0503	0.0371	40.3	29.7	1	10.0-138			30.3	36
Ethylbenzene	0.125	U	0.0771	0.0649	61.7	51.9	1	10.0-160			17.2	38
Di-isopropyl ether	0.125	U	0.0714	0.0677	57.1	54.2	1	10.0-147			5.19	36
2-Hexanone	0.625	U	0.610	0.755	97.7	121	1	10.0-160			21.2	36
Hexachloro-1,3-butadiene	0.125	U	0.0876	0.0827	70.1	66.2	1	10.0-160			5.72	40

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1068608-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1068608-07 02/10/19 18:22 • (MS) R3382674-4 02/10/19 19:37 • (MSD) R3382674-5 02/10/19 19:56

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 %
Isopropylbenzene	0.125	U	0.0757	0.0617	60.6	49.4	1	10.0-155			20.3	38
n-Hexane	0.125	0.00302	0.0337	0.0325	24.6	23.6	1	10.0-157			3.59	37
Iodomethane	0.625	U	0.281	0.225	44.9	36.0	1	10.0-160			22.1	38
2-Butanone (MEK)	0.625	U	0.508	0.576	81.3	92.2	1	10.0-160			12.6	40
Methylene Chloride	0.125	0.00713	0.0718	0.0645	51.8	45.9	1	10.0-141			10.8	37
p-Isopropyltoluene	0.125	U	0.0901	0.0766	72.1	61.3	1	10.0-160			16.3	40
4-Methyl-2-pentanone (MIBK)	0.625	U	0.397	0.480	63.5	76.8	1	10.0-160			19.0	35
Methyl tert-butyl ether	0.125	U	0.0650	0.0684	52.0	54.7	1	11.0-147			5.14	35
Naphthalene	0.125	U	0.104	0.117	83.6	93.9	1	10.0-160			11.6	36
n-Propylbenzene	0.125	U	0.0830	0.0652	66.4	52.1	1	10.0-158			24.1	38
Styrene	0.125	U	0.101	0.0916	80.7	73.2	1	10.0-160			9.63	40
1,1,2,2-Tetrachloroethane	0.125	U	0.0885	0.0954	70.8	76.3	1	10.0-160			7.48	35
1,1,1,2-Tetrachloroethane	0.125	U	0.0827	0.0786	66.2	62.9	1	10.0-149			5.09	39
Tetrachloroethene	0.125	U	0.0689	0.0513	55.1	41.0	1	10.0-156			29.2	39
Toluene	0.125	U	0.0730	0.0594	58.4	47.5	1	10.0-156			20.7	38
1,1,2-Trichlorotrifluoroethane	0.125	U	0.0623	0.0425	49.8	34.0	1	10.0-160		J3	37.6	36
1,2,3-Trichlorobenzene	0.125	U	0.0991	0.102	79.3	81.2	1	10.0-160			2.43	40
1,2,4-Trichlorobenzene	0.125	U	0.125	0.135	100	108	1	10.0-160			7.42	40
1,1,1-Trichloroethane	0.125	U	0.0679	0.0492	54.3	39.3	1	10.0-144			32.0	35
1,1,2-Trichloroethane	0.125	U	0.129	0.131	103	105	1	10.0-160			1.83	35
Trichloroethene	0.125	U	0.0939	0.0725	75.1	58.0	1	10.0-156			25.7	38
Trichlorofluoromethane	0.125	U	0.0530	0.0363	42.4	29.1	1	10.0-160			37.4	40
1,2,3-Trichloropropane	0.125	U	0.0996	0.110	79.7	88.2	1	10.0-156			10.1	35
1,2,4-Trimethylbenzene	0.125	U	0.0887	0.0768	70.9	61.5	1	10.0-160			14.3	36
1,2,3-Trimethylbenzene	0.125	U	0.0904	0.0777	72.3	62.2	1	10.0-160			15.1	36
1,3,5-Trimethylbenzene	0.125	U	0.0828	0.0675	66.2	54.0	1	10.0-160			20.2	38
Vinyl chloride	0.125	U	0.0357	0.0265	28.5	21.2	1	10.0-160			29.5	37
Vinyl acetate	0.625	U	0.325	0.371	52.0	59.4	1	10.0-128			13.3	40
Xylenes, Total	0.375	U	0.225	0.194	59.9	51.8	1	10.0-160			14.5	38
(S) Toluene-d8					104	103	75.0-131					
(S) 4-Bromofluorobenzene					94.9	96.5	67.0-138					
(S) 1,2-Dichloroethane-d4					100	101	70.0-130					

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3383448-2 02/13/19 13:04

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
1,2-Dichloroethane	U		0.000475	0.00250
1,2-Dichloropropane	U		0.00127	0.00500
Tetrachloroethene	U		0.000700	0.00250
(S) Toluene-d8	101			75.0-131
(S) 4-Bromofluorobenzene	92.7			67.0-138
(S) 1,2-Dichloroethane-d4	89.2			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

Laboratory Control Sample (LCS)

(LCS) R3383448-1 02/13/19 11:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2-Dichloroethane	0.125	0.114	91.0	65.0-131	
1,2-Dichloropropane	0.125	0.123	98.7	74.0-125	
Tetrachloroethene	0.125	0.126	101	70.0-136	
(S) Toluene-d8			99.8	75.0-131	
(S) 4-Bromofluorobenzene			99.8	67.0-138	
(S) 1,2-Dichloroethane-d4			92.0	70.0-130	

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3384035-2 02/14/19 10:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
(S) Toluene-d8	103			75.0-131
(S) 4-Bromofluorobenzene	103			67.0-138
(S) 1,2-Dichloroethane-d4	103			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3384035-1 02/14/19 09:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.832	133	10.0-160	
(S) Toluene-d8			103	75.0-131	
(S) 4-Bromofluorobenzene			107	67.0-138	
(S) 1,2-Dichloroethane-d4			104	70.0-130	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



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, the sample preparation volume or weight values differ from the standard, 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.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
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: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
J3	The associated batch QC was outside the established quality control range for precision.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 G

8 Al

9 Sc



Pace National 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.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

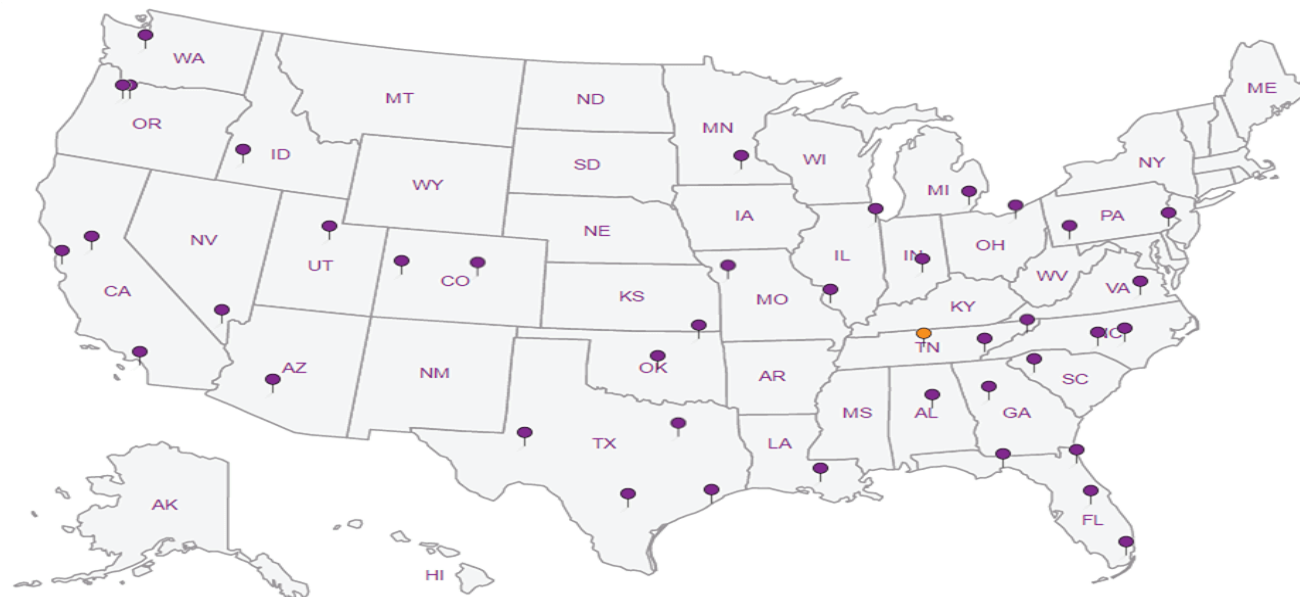
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National 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. Pace National performs all testing at our central laboratory.



Hold:	Condition:
NCF	OK

PES Environmental, Inc.- WA

Sample Delivery Group: L1070864
Samples Received: 02/15/2019
Project Number: 1413.001.05.501
Description: American Linen

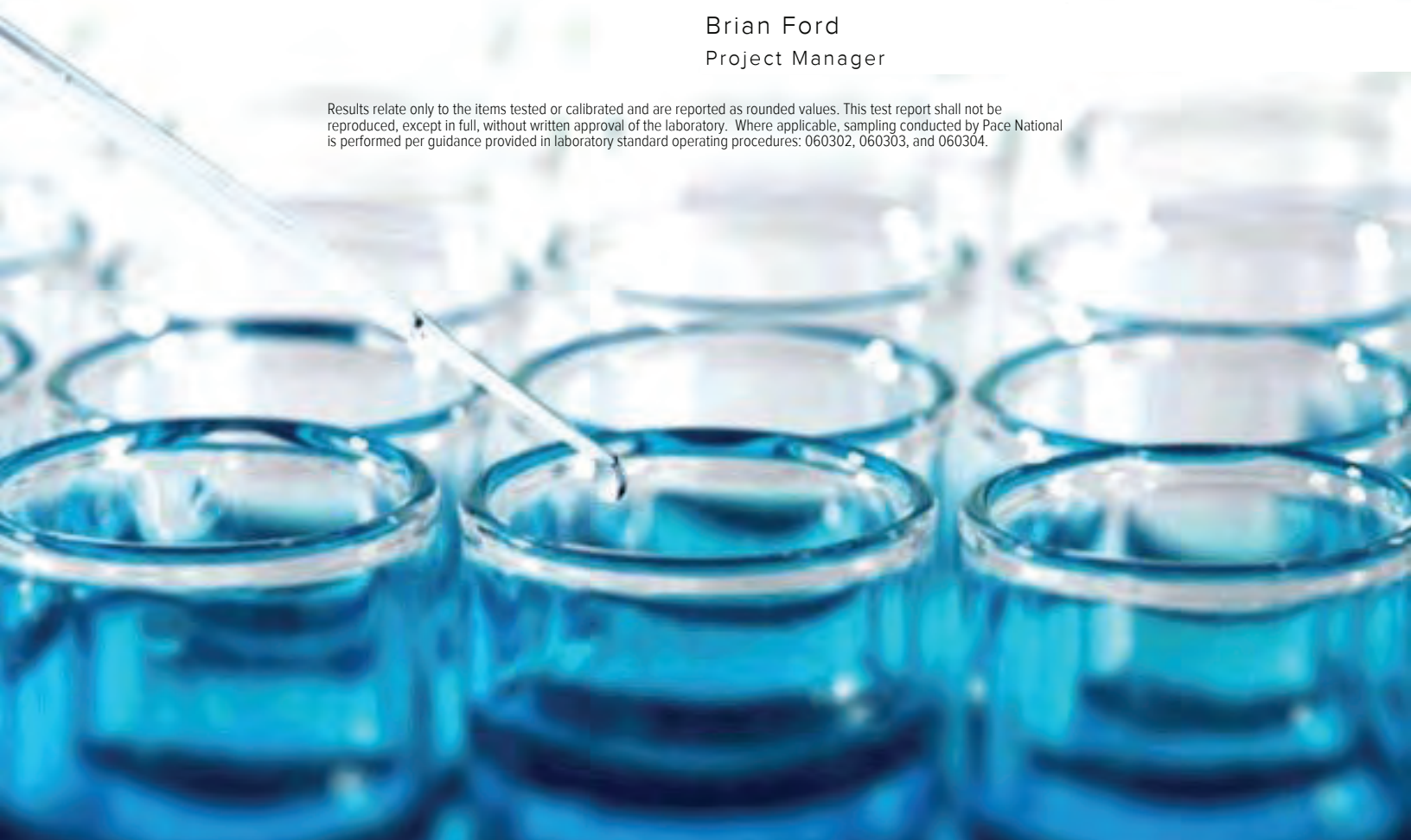
Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford
Project Manager

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 Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.





Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	7
Sr: Sample Results	8
A3C3-10 L1070864-01	8
A3C3-15 L1070864-02	10
A3C3-20 L1070864-03	12
A3C3-25 L1070864-04	14
A3C3-32 L1070864-05	16
A3C3-35 L1070864-06	18
A3C3-40 L1070864-07	20
A3C3-45 L1070864-08	22
A3C3-50 L1070864-09	24
B5D5-10 L1070864-10	26
B5D5-15 L1070864-11	28
B5D5-20 L1070864-12	30
B5D5-25 L1070864-13	32
B5D5-32 L1070864-14	34
B5D5-35 L1070864-15	36
B5D5-40 L1070864-16	38
B5D5-45 L1070864-17	40
B5D5-50 L1070864-18	42
B-932-50 L1070864-19	44
Qc: Quality Control Summary	46
Total Solids by Method 2540 G-2011	46
Volatile Organic Compounds (GC) by Method NWTPHGX	49
Volatile Organic Compounds (GC/MS) by Method 8260C	50
Gl: Glossary of Terms	61
Al: Accreditations & Locations	62
Sc: Sample Chain of Custody	63

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



A3C3-10 L1070864-01 Solid

			Collected by Alyssa Witt	Collected date/time 02/13/19 13:50	Received date/time 02/15/19 08:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1239020	1	02/19/19 13:23	02/19/19 13:38	KBC
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1238623	25	02/13/19 13:50	02/18/19 13:16	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1238391	1	02/13/19 13:50	02/17/19 15:36	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1240554	1	02/13/19 13:50	02/21/19 18:33	JHH

¹ Cp

² Tc

³ Ss

⁴ Cn

A3C3-15 L1070864-02 Solid

			Collected by Alyssa Witt	Collected date/time 02/13/19 13:55	Received date/time 02/15/19 08:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1239020	1	02/19/19 13:23	02/19/19 13:38	KBC
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1238623	25	02/13/19 13:55	02/18/19 13:38	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1238391	1	02/13/19 13:55	02/17/19 15:56	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1240554	1	02/13/19 13:55	02/21/19 18:52	JHH

⁵ Sr

⁶ Qc

⁷ Gl

A3C3-20 L1070864-03 Solid

			Collected by Alyssa Witt	Collected date/time 02/13/19 14:05	Received date/time 02/15/19 08:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1239020	1	02/19/19 13:23	02/19/19 13:38	KBC
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1238623	25	02/13/19 14:05	02/18/19 13:59	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1238391	1	02/13/19 14:05	02/17/19 16:16	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1240554	1	02/13/19 14:05	02/21/19 19:12	JHH

⁸ Al

⁹ Sc

A3C3-25 L1070864-04 Solid

			Collected by Alyssa Witt	Collected date/time 02/13/19 14:10	Received date/time 02/15/19 08:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1239020	1	02/19/19 13:23	02/19/19 13:38	KBC
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1238623	25	02/13/19 14:10	02/18/19 14:20	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1238391	1	02/13/19 14:10	02/17/19 16:36	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1240554	1	02/13/19 14:10	02/21/19 19:31	JHH

A3C3-32 L1070864-05 Solid

			Collected by Alyssa Witt	Collected date/time 02/13/19 14:15	Received date/time 02/15/19 08:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1239020	1	02/19/19 13:23	02/19/19 13:38	KBC
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1238623	25	02/13/19 14:15	02/18/19 14:41	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1238391	1	02/13/19 14:15	02/17/19 16:56	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1240554	1	02/13/19 14:15	02/21/19 19:50	JHH

A3C3-35 L1070864-06 Solid

			Collected by Alyssa Witt	Collected date/time 02/13/19 14:20	Received date/time 02/15/19 08:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1239020	1	02/19/19 13:23	02/19/19 13:38	KBC
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1238623	25	02/13/19 14:20	02/18/19 15:03	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1238391	1	02/13/19 14:20	02/17/19 17:16	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1240554	1	02/13/19 14:20	02/21/19 20:09	JHH

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

1413.001.05.501

SDG:

L1070864

DATE/TIME:

02/22/19 18:53

PAGE:

3 of 64

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



A3C3-40 L1070864-07 Solid

Collected by
Alyssa Witt

Collected date/time
02/13/19 14:25

Received date/time
02/15/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1239020	1	02/19/19 13:23	02/19/19 13:38	KBC
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1238623	25	02/13/19 14:25	02/18/19 15:24	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1238391	1	02/13/19 14:25	02/17/19 17:36	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1240554	1	02/13/19 14:25	02/21/19 20:29	JHH

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

A3C3-45 L1070864-08 Solid

Collected by
Alyssa Witt

Collected date/time
02/13/19 14:45

Received date/time
02/15/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1239020	1	02/19/19 13:23	02/19/19 13:38	KBC
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1238623	25	02/13/19 14:45	02/18/19 15:45	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1238391	1	02/13/19 14:45	02/17/19 17:57	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1240554	1	02/13/19 14:45	02/21/19 20:49	JHH

A3C3-50 L1070864-09 Solid

Collected by
Alyssa Witt

Collected date/time
02/13/19 14:50

Received date/time
02/15/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1239021	1	02/19/19 13:10	02/19/19 13:20	KBC
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1238623	25	02/13/19 14:50	02/18/19 16:07	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1238391	1	02/13/19 14:50	02/17/19 18:17	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1240554	1	02/13/19 14:50	02/21/19 21:08	JHH

B5D5-10 L1070864-10 Solid

Collected by
Alyssa Witt

Collected date/time
02/14/19 00:00

Received date/time
02/15/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1239021	1	02/19/19 13:10	02/19/19 13:20	KBC
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1238391	1	02/14/19 00:00	02/17/19 18:38	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1240554	1	02/14/19 00:00	02/21/19 21:28	JHH

B5D5-15 L1070864-11 Solid

Collected by
Alyssa Witt

Collected date/time
02/14/19 00:00

Received date/time
02/15/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1239021	1	02/19/19 13:10	02/19/19 13:20	KBC
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1238391	1	02/14/19 00:00	02/17/19 18:58	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1240554	1	02/14/19 00:00	02/21/19 21:47	JHH

B5D5-20 L1070864-12 Solid

Collected by
Alyssa Witt

Collected date/time
02/14/19 00:00

Received date/time
02/15/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1239021	1	02/19/19 13:10	02/19/19 13:20	KBC
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1238391	1	02/14/19 00:00	02/17/19 19:18	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1240554	1	02/14/19 00:00	02/21/19 22:07	JHH

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

1413.001.05.501

SDG:

L1070864

DATE/TIME:

02/22/19 18:53

PAGE:

4 of 64

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B5D5-25 L1070864-13 Solid

Collected by Alyssa Witt
Collected date/time 02/14/19 00:00
Received date/time 02/15/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1239021	1	02/19/19 13:10	02/19/19 13:20	KBC
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1238391	1	02/14/19 00:00	02/17/19 19:38	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1240554	1	02/14/19 00:00	02/21/19 22:26	JHH

¹ Cp

² Tc

³ Ss

B5D5-32 L1070864-14 Solid

Collected by Alyssa Witt
Collected date/time 02/14/19 00:00
Received date/time 02/15/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1239021	1	02/19/19 13:10	02/19/19 13:20	KBC
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1238391	1	02/14/19 00:00	02/17/19 19:58	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1240554	1	02/14/19 00:00	02/21/19 22:46	JHH

⁴ Cn

⁵ Sr

⁶ Qc

B5D5-35 L1070864-15 Solid

Collected by Alyssa Witt
Collected date/time 02/14/19 00:00
Received date/time 02/15/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1239021	1	02/19/19 13:10	02/19/19 13:20	KBC
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1238391	1	02/14/19 00:00	02/17/19 20:18	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1240554	1	02/14/19 00:00	02/21/19 23:05	JHH

⁷ Gl

⁸ Al

⁹ Sc

B5D5-40 L1070864-16 Solid

Collected by Alyssa Witt
Collected date/time 02/14/19 00:00
Received date/time 02/15/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1239021	1	02/19/19 13:10	02/19/19 13:20	KBC
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1238391	1	02/14/19 00:00	02/17/19 20:38	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1240554	1	02/14/19 00:00	02/21/19 23:25	JHH

B5D5-45 L1070864-17 Solid

Collected by Alyssa Witt
Collected date/time 02/14/19 00:00
Received date/time 02/15/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1239021	1	02/19/19 13:10	02/19/19 13:20	KBC
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1238391	1	02/14/19 00:00	02/17/19 20:58	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1240554	4	02/14/19 00:00	02/22/19 00:05	JHH

B5D5-50 L1070864-18 Solid

Collected by Alyssa Witt
Collected date/time 02/14/19 00:00
Received date/time 02/15/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1239021	1	02/19/19 13:10	02/19/19 13:20	KBC
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1238391	1	02/14/19 00:00	02/17/19 21:19	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1240813	1	02/14/19 00:00	02/22/19 12:18	JHH

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B-932-50 L1070864-19 Solid

Collected by
Alyssa WittCollected date/time
02/14/19 00:00Received date/time
02/15/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1239022	1	02/19/19 13:27	02/19/19 13:37	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1239738	1	02/14/19 00:00	02/20/19 12:35	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1240722	1	02/14/19 00:00	02/22/19 00:25	JHH

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

1413.001.05.501

SDG:

L1070864

DATE/TIME:

02/22/19 18:53

PAGE:

6 of 64



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, 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
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.6		1	02/19/2019 13:38	WG1239020

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	3.52		1.15	3.40	25	02/18/2019 13:16	WG1238623
(S) a,a,a-Trifluorotoluene(FID)	94.0			77.0-120		02/18/2019 13:16	WG1238623

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0708		0.0186	0.0340	1	02/21/2019 18:33	WG1240554
Acrylonitrile	U		0.00258	0.0170	1	02/17/2019 15:36	WG1238391
Benzene	0.00236		0.000543	0.00136	1	02/17/2019 15:36	WG1238391
Bromobenzene	U		0.00143	0.0170	1	02/17/2019 15:36	WG1238391
Bromodichloromethane	U		0.00107	0.00340	1	02/17/2019 15:36	WG1238391
Bromochloromethane	U		0.00153	0.00679	1	02/17/2019 15:36	WG1238391
Bromoform	U		0.00812	0.0340	1	02/17/2019 15:36	WG1238391
Bromomethane	U		0.00503	0.0170	1	02/17/2019 15:36	WG1238391
n-Butylbenzene	U		0.00522	0.0170	1	02/17/2019 15:36	WG1238391
sec-Butylbenzene	U		0.00344	0.0170	1	02/17/2019 15:36	WG1238391
tert-Butylbenzene	U		0.00211	0.00679	1	02/17/2019 15:36	WG1238391
Carbon disulfide	0.00895	J	0.00551	0.0170	1	02/17/2019 15:36	WG1238391
Carbon tetrachloride	U		0.00147	0.00679	1	02/17/2019 15:36	WG1238391
Chlorobenzene	U		0.000778	0.00340	1	02/17/2019 15:36	WG1238391
Chlorodibromomethane	U		0.000611	0.00340	1	02/17/2019 15:36	WG1238391
Chloroethane	U		0.00147	0.00679	1	02/17/2019 15:36	WG1238391
Chloroform	U		0.000564	0.00340	1	02/17/2019 15:36	WG1238391
Chloromethane	U		0.00189	0.0170	1	02/17/2019 15:36	WG1238391
2-Chlorotoluene	U		0.00125	0.00340	1	02/17/2019 15:36	WG1238391
4-Chlorotoluene	U		0.00153	0.00679	1	02/17/2019 15:36	WG1238391
1,2-Dibromo-3-Chloropropane	U		0.00693	0.0340	1	02/17/2019 15:36	WG1238391
1,2-Dibromoethane	U		0.000713	0.00340	1	02/17/2019 15:36	WG1238391
Dibromomethane	U		0.00136	0.00679	1	02/17/2019 15:36	WG1238391
1,2-Dichlorobenzene	U		0.00197	0.00679	1	02/17/2019 15:36	WG1238391
1,3-Dichlorobenzene	U		0.00231	0.00679	1	02/17/2019 15:36	WG1238391
1,4-Dichlorobenzene	U		0.00268	0.00679	1	02/17/2019 15:36	WG1238391
Dichlorodifluoromethane	U		0.00111	0.00340	1	02/17/2019 15:36	WG1238391
1,1-Dichloroethane	U		0.000781	0.00340	1	02/17/2019 15:36	WG1238391
1,2-Dichloroethane	U		0.000645	0.00340	1	02/17/2019 15:36	WG1238391
1,1-Dichloroethene	U		0.000679	0.00340	1	02/17/2019 15:36	WG1238391
cis-1,2-Dichloroethene	0.00175	J	0.000937	0.00340	1	02/17/2019 15:36	WG1238391
trans-1,2-Dichloroethene	U		0.00194	0.00679	1	02/17/2019 15:36	WG1238391
1,2-Dichloropropane	U		0.00172	0.00679	1	02/17/2019 15:36	WG1238391
1,1-Dichloropropene	U		0.000951	0.00340	1	02/17/2019 15:36	WG1238391
1,3-Dichloropropane	U		0.00238	0.00679	1	02/17/2019 15:36	WG1238391
cis-1,3-Dichloropropene	U		0.000921	0.00340	1	02/17/2019 15:36	WG1238391
trans-1,3-Dichloropropene	U		0.00208	0.00679	1	02/17/2019 15:36	WG1238391
trans-1,4-Dichloro-2-butene	U		0.00190	0.00679	1	02/17/2019 15:36	WG1238391
2,2-Dichloropropane	U		0.00108	0.00340	1	02/17/2019 15:36	WG1238391
Di-isopropyl ether	U		0.000475	0.00136	1	02/17/2019 15:36	WG1238391
Ethylbenzene	0.00132	J	0.000720	0.00340	1	02/17/2019 15:36	WG1238391
Hexachloro-1,3-butadiene	U		0.0172	0.0340	1	02/17/2019 15:36	WG1238391
2-Hexanone	U		0.0136	0.0340	1	02/17/2019 15:36	WG1238391
n-Hexane	0.0604		0.00144	0.00679	1	02/17/2019 15:36	WG1238391

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/13/19 13:50

L1070864

Volatile Organic Compounds (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		0.00822	0.0170	1	02/17/2019 15:36	WG1238391
Isopropylbenzene	U		0.00117	0.00340	1	02/17/2019 15:36	WG1238391
p-Isopropyltoluene	0.00474	UL	0.00316	0.00679	1	02/17/2019 15:36	WG1238391
2-Butanone (MEK)	U		0.0170	0.0340	1	02/17/2019 15:36	WG1238391
Methylene Chloride	U		0.00902	0.0340	1	02/17/2019 15:36	WG1238391
4-Methyl-2-pentanone (MIBK)	U		0.0136	0.0340	1	02/17/2019 15:36	WG1238391
Methyl tert-butyl ether	U		0.000401	0.00136	1	02/17/2019 15:36	WG1238391
Naphthalene	0.00766	UL	0.00424	0.0170	1	02/17/2019 15:36	WG1238391
n-Propylbenzene	U		0.00160	0.00679	1	02/17/2019 15:36	WG1238391
Styrene	U		0.00371	0.0170	1	02/17/2019 15:36	WG1238391
1,1,1,2-Tetrachloroethane	U		0.000679	0.00340	1	02/17/2019 15:36	WG1238391
1,1,2,2-Tetrachloroethane	U		0.000530	0.00340	1	02/17/2019 15:36	WG1238391
1,1,2-Trichlorotrifluoroethane	U		0.000917	0.00340	1	02/17/2019 15:36	WG1238391
Tetrachloroethene	0.00298	UL	0.000951	0.00340	1	02/17/2019 15:36	WG1238391
Toluene	0.00626	UL	0.00170	0.00679	1	02/17/2019 15:36	WG1238391
1,2,3-Trichlorobenzene	U		0.000849	0.00340	1	02/17/2019 15:36	WG1238391
1,2,4-Trichlorobenzene	U		0.00655	0.0170	1	02/17/2019 15:36	WG1238391
1,1,1-Trichloroethane	U		0.000373	0.00340	1	02/17/2019 15:36	WG1238391
1,1,2-Trichloroethane	U		0.00120	0.00340	1	02/17/2019 15:36	WG1238391
Trichloroethene	U		0.000543	0.00136	1	02/21/2019 18:33	WG1240554
Trichlorofluoromethane	U		0.000679	0.00340	1	02/17/2019 15:36	WG1238391
1,2,3-Trichloropropane	U		0.00693	0.0170	1	02/17/2019 15:36	WG1238391
1,2,4-Trimethylbenzene	0.00265	UL	0.00158	0.00679	1	02/17/2019 15:36	WG1238391
1,2,3-Trimethylbenzene	0.00375	UL	0.00156	0.00679	1	02/17/2019 15:36	WG1238391
1,3,5-Trimethylbenzene	U		0.00147	0.00679	1	02/17/2019 15:36	WG1238391
Vinyl acetate	U		0.00478	0.0170	1	02/17/2019 15:36	WG1238391
Vinyl chloride	U		0.000928	0.00340	1	02/17/2019 15:36	WG1238391
Xylenes, Total	0.00652	UL	0.00649	0.00883	1	02/17/2019 15:36	WG1238391
(S) Toluene-d8	98.7			75.0-131		02/17/2019 15:36	WG1238391
(S) Toluene-d8	100			75.0-131		02/21/2019 18:33	WG1240554
(S) 4-Bromofluorobenzene	102			67.0-138		02/17/2019 15:36	WG1238391
(S) 4-Bromofluorobenzene	95.6			67.0-138		02/21/2019 18:33	WG1240554
(S) 1,2-Dichloroethane-d4	103			70.0-130		02/17/2019 15:36	WG1238391
(S) 1,2-Dichloroethane-d4	97.6			70.0-130		02/21/2019 18:33	WG1240554

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.5		1	02/19/2019 13:38	WG1239020

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	4.42		0.980	2.89	25	02/18/2019 13:38	WG1238623
(S) a,a,a-Trifluorotoluene(FID)	96.1			77.0-120		02/18/2019 13:38	WG1238623

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0273	J	0.0158	0.0289	1	02/21/2019 18:52	WG1240554
Acrylonitrile	U		0.00220	0.0144	1	02/17/2019 15:56	WG1238391
Benzene	0.00298		0.000462	0.00116	1	02/17/2019 15:56	WG1238391
Bromobenzene	U		0.00121	0.0144	1	02/17/2019 15:56	WG1238391
Bromodichloromethane	U		0.000911	0.00289	1	02/17/2019 15:56	WG1238391
Bromochloromethane	U		0.00131	0.00578	1	02/17/2019 15:56	WG1238391
Bromoform	U		0.00691	0.0289	1	02/17/2019 15:56	WG1238391
Bromomethane	U		0.00428	0.0144	1	02/17/2019 15:56	WG1238391
n-Butylbenzene	U		0.00444	0.0144	1	02/17/2019 15:56	WG1238391
sec-Butylbenzene	U		0.00292	0.0144	1	02/17/2019 15:56	WG1238391
tert-Butylbenzene	U		0.00179	0.00578	1	02/17/2019 15:56	WG1238391
Carbon disulfide	0.00665	J	0.00469	0.0144	1	02/17/2019 15:56	WG1238391
Carbon tetrachloride	U		0.00125	0.00578	1	02/17/2019 15:56	WG1238391
Chlorobenzene	U		0.000662	0.00289	1	02/17/2019 15:56	WG1238391
Chlorodibromomethane	U		0.000520	0.00289	1	02/17/2019 15:56	WG1238391
Chloroethane	U		0.00125	0.00578	1	02/17/2019 15:56	WG1238391
Chloroform	U		0.000480	0.00289	1	02/17/2019 15:56	WG1238391
Chloromethane	U		0.00161	0.0144	1	02/17/2019 15:56	WG1238391
2-Chlorotoluene	U		0.00106	0.00289	1	02/17/2019 15:56	WG1238391
4-Chlorotoluene	U		0.00131	0.00578	1	02/17/2019 15:56	WG1238391
1,2-Dibromo-3-Chloropropane	U		0.00589	0.0289	1	02/17/2019 15:56	WG1238391
1,2-Dibromoethane	U		0.000607	0.00289	1	02/17/2019 15:56	WG1238391
Dibromomethane	U		0.00116	0.00578	1	02/17/2019 15:56	WG1238391
1,2-Dichlorobenzene	U		0.00168	0.00578	1	02/17/2019 15:56	WG1238391
1,3-Dichlorobenzene	U		0.00196	0.00578	1	02/17/2019 15:56	WG1238391
1,4-Dichlorobenzene	U		0.00228	0.00578	1	02/17/2019 15:56	WG1238391
Dichlorodifluoromethane	U		0.000945	0.00289	1	02/17/2019 15:56	WG1238391
1,1-Dichloroethane	U		0.000665	0.00289	1	02/17/2019 15:56	WG1238391
1,2-Dichloroethane	U		0.000549	0.00289	1	02/17/2019 15:56	WG1238391
1,1-Dichloroethene	U		0.000578	0.00289	1	02/17/2019 15:56	WG1238391
cis-1,2-Dichloroethene	U		0.000798	0.00289	1	02/17/2019 15:56	WG1238391
trans-1,2-Dichloroethene	U		0.00165	0.00578	1	02/17/2019 15:56	WG1238391
1,2-Dichloropropane	U		0.00147	0.00578	1	02/17/2019 15:56	WG1238391
1,1-Dichloropropene	U		0.000809	0.00289	1	02/17/2019 15:56	WG1238391
1,3-Dichloropropane	U		0.00202	0.00578	1	02/17/2019 15:56	WG1238391
cis-1,3-Dichloropropene	U		0.000784	0.00289	1	02/17/2019 15:56	WG1238391
trans-1,3-Dichloropropene	U		0.00177	0.00578	1	02/17/2019 15:56	WG1238391
trans-1,4-Dichloro-2-butene	U		0.00162	0.00578	1	02/17/2019 15:56	WG1238391
2,2-Dichloropropane	U		0.000917	0.00289	1	02/17/2019 15:56	WG1238391
Di-isopropyl ether	U		0.000405	0.00116	1	02/17/2019 15:56	WG1238391
Ethylbenzene	0.00379		0.000613	0.00289	1	02/17/2019 15:56	WG1238391
Hexachloro-1,3-butadiene	U		0.0147	0.0289	1	02/17/2019 15:56	WG1238391
2-Hexanone	U		0.0116	0.0289	1	02/17/2019 15:56	WG1238391
n-Hexane	0.0771		0.00123	0.00578	1	02/17/2019 15:56	WG1238391





Collected date/time: 02/13/19 13:55

L1070864

Volatile Organic Compounds (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		0.00699	0.0144	1	02/17/2019 15:56	WG1238391
Isopropylbenzene	0.00145	1L	0.000997	0.00289	1	02/17/2019 15:56	WG1238391
p-Isopropyltoluene	0.00775		0.00269	0.00578	1	02/17/2019 15:56	WG1238391
2-Butanone (MEK)	U		0.0144	0.0289	1	02/17/2019 15:56	WG1238391
Methylene Chloride	U		0.00767	0.0289	1	02/17/2019 15:56	WG1238391
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0289	1	02/17/2019 15:56	WG1238391
Methyl tert-butyl ether	U		0.000341	0.00116	1	02/17/2019 15:56	WG1238391
Naphthalene	0.0108	1L	0.00361	0.0144	1	02/17/2019 15:56	WG1238391
n-Propylbenzene	U		0.00136	0.00578	1	02/17/2019 15:56	WG1238391
Styrene	U		0.00316	0.0144	1	02/17/2019 15:56	WG1238391
1,1,1,2-Tetrachloroethane	U		0.000578	0.00289	1	02/17/2019 15:56	WG1238391
1,1,2,2-Tetrachloroethane	U		0.000451	0.00289	1	02/17/2019 15:56	WG1238391
1,1,2-Trichlorotrifluoroethane	U		0.000780	0.00289	1	02/17/2019 15:56	WG1238391
Tetrachloroethene	0.00281	1L	0.000809	0.00289	1	02/17/2019 15:56	WG1238391
Toluene	0.0167		0.00144	0.00578	1	02/17/2019 15:56	WG1238391
1,2,3-Trichlorobenzene	U		0.000722	0.00289	1	02/17/2019 15:56	WG1238391
1,2,4-Trichlorobenzene	U		0.00557	0.0144	1	02/17/2019 15:56	WG1238391
1,1,1-Trichloroethane	U		0.000318	0.00289	1	02/17/2019 15:56	WG1238391
1,1,2-Trichloroethane	U		0.00102	0.00289	1	02/17/2019 15:56	WG1238391
Trichloroethene	U		0.000462	0.00116	1	02/21/2019 18:52	WG1240554
Trichlorofluoromethane	U		0.000578	0.00289	1	02/17/2019 15:56	WG1238391
1,2,3-Trichloropropane	U		0.00589	0.0144	1	02/17/2019 15:56	WG1238391
1,2,4-Trimethylbenzene	0.00773		0.00134	0.00578	1	02/17/2019 15:56	WG1238391
1,2,3-Trimethylbenzene	0.00772		0.00133	0.00578	1	02/17/2019 15:56	WG1238391
1,3,5-Trimethylbenzene	0.00234	1L	0.00125	0.00578	1	02/17/2019 15:56	WG1238391
Vinyl acetate	U		0.00407	0.0144	1	02/17/2019 15:56	WG1238391
Vinyl chloride	U		0.000789	0.00289	1	02/17/2019 15:56	WG1238391
Xylenes, Total	0.0136		0.00552	0.00751	1	02/17/2019 15:56	WG1238391
(S) Toluene-d8	97.5			75.0-131		02/17/2019 15:56	WG1238391
(S) Toluene-d8	98.9			75.0-131		02/21/2019 18:52	WG1240554
(S) 4-Bromofluorobenzene	105			67.0-138		02/17/2019 15:56	WG1238391
(S) 4-Bromofluorobenzene	95.7			67.0-138		02/21/2019 18:52	WG1240554
(S) 1,2-Dichloroethane-d4	102			70.0-130		02/17/2019 15:56	WG1238391
(S) 1,2-Dichloroethane-d4	95.9			70.0-130		02/21/2019 18:52	WG1240554

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

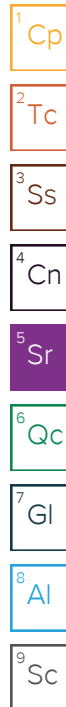
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.4		1	02/19/2019 13:38	WG1239020

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	1.38	J	0.970	2.86	25	02/18/2019 13:59	WG1238623
(S) a,a,a-Trifluorotoluene(FID)	96.1			77.0-120		02/18/2019 13:59	WG1238623

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0157	0.0286	1	02/21/2019 19:12	WG1240554
Acrylonitrile	U		0.00217	0.0143	1	02/17/2019 16:16	WG1238391
Benzene	0.000913	J	0.000458	0.00114	1	02/17/2019 16:16	WG1238391
Bromobenzene	U		0.00120	0.0143	1	02/17/2019 16:16	WG1238391
Bromodichloromethane	U		0.000902	0.00286	1	02/17/2019 16:16	WG1238391
Bromochloromethane	U		0.00129	0.00572	1	02/17/2019 16:16	WG1238391
Bromoform	U		0.00684	0.0286	1	02/17/2019 16:16	WG1238391
Bromomethane	U		0.00423	0.0143	1	02/17/2019 16:16	WG1238391
n-Butylbenzene	U		0.00439	0.0143	1	02/17/2019 16:16	WG1238391
sec-Butylbenzene	U		0.00289	0.0143	1	02/17/2019 16:16	WG1238391
tert-Butylbenzene	U		0.00177	0.00572	1	02/17/2019 16:16	WG1238391
Carbon disulfide	U		0.00465	0.0143	1	02/17/2019 16:16	WG1238391
Carbon tetrachloride	U		0.00124	0.00572	1	02/17/2019 16:16	WG1238391
Chlorobenzene	U		0.000656	0.00286	1	02/17/2019 16:16	WG1238391
Chlorodibromomethane	U		0.000515	0.00286	1	02/17/2019 16:16	WG1238391
Chloroethane	U		0.00124	0.00572	1	02/17/2019 16:16	WG1238391
Chloroform	U		0.000475	0.00286	1	02/17/2019 16:16	WG1238391
Chloromethane	U		0.00159	0.0143	1	02/17/2019 16:16	WG1238391
2-Chlorotoluene	U		0.00105	0.00286	1	02/17/2019 16:16	WG1238391
4-Chlorotoluene	U		0.00129	0.00572	1	02/17/2019 16:16	WG1238391
1,2-Dibromo-3-Chloropropane	U		0.00584	0.0286	1	02/17/2019 16:16	WG1238391
1,2-Dibromoethane	U		0.000601	0.00286	1	02/17/2019 16:16	WG1238391
Dibromomethane	U		0.00114	0.00572	1	02/17/2019 16:16	WG1238391
1,2-Dichlorobenzene	U		0.00166	0.00572	1	02/17/2019 16:16	WG1238391
1,3-Dichlorobenzene	U		0.00195	0.00572	1	02/17/2019 16:16	WG1238391
1,4-Dichlorobenzene	U		0.00225	0.00572	1	02/17/2019 16:16	WG1238391
Dichlorodifluoromethane	U		0.000936	0.00286	1	02/17/2019 16:16	WG1238391
1,1-Dichloroethane	U		0.000658	0.00286	1	02/17/2019 16:16	WG1238391
1,2-Dichloroethane	U		0.000543	0.00286	1	02/17/2019 16:16	WG1238391
1,1-Dichloroethene	U		0.000572	0.00286	1	02/17/2019 16:16	WG1238391
cis-1,2-Dichloroethene	U		0.000789	0.00286	1	02/17/2019 16:16	WG1238391
trans-1,2-Dichloroethene	U		0.00164	0.00572	1	02/17/2019 16:16	WG1238391
1,2-Dichloropropane	U		0.00145	0.00572	1	02/17/2019 16:16	WG1238391
1,1-Dichloropropene	U		0.000801	0.00286	1	02/17/2019 16:16	WG1238391
1,3-Dichloropropane	U		0.00200	0.00572	1	02/17/2019 16:16	WG1238391
cis-1,3-Dichloropropene	U		0.000776	0.00286	1	02/17/2019 16:16	WG1238391
trans-1,3-Dichloropropene	U		0.00175	0.00572	1	02/17/2019 16:16	WG1238391
trans-1,4-Dichloro-2-butene	U		0.00160	0.00572	1	02/17/2019 16:16	WG1238391
2,2-Dichloropropane	U		0.000907	0.00286	1	02/17/2019 16:16	WG1238391
Di-isopropyl ether	U		0.000400	0.00114	1	02/17/2019 16:16	WG1238391
Ethylbenzene	U		0.000606	0.00286	1	02/17/2019 16:16	WG1238391
Hexachloro-1,3-butadiene	U		0.0145	0.0286	1	02/17/2019 16:16	WG1238391
2-Hexanone	U		0.0114	0.0286	1	02/17/2019 16:16	WG1238391
n-Hexane	U		0.00121	0.00572	1	02/17/2019 16:16	WG1238391





Collected date/time: 02/13/19 14:05

L1070864

Volatile Organic Compounds (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		0.00692	0.0143	1	02/17/2019 16:16	WG1238391
Isopropylbenzene	U		0.000987	0.00286	1	02/17/2019 16:16	WG1238391
p-Isopropyltoluene	U		0.00267	0.00572	1	02/17/2019 16:16	WG1238391
2-Butanone (MEK)	0.0310		0.0143	0.0286	1	02/17/2019 16:16	WG1238391
Methylene Chloride	U		0.00760	0.0286	1	02/17/2019 16:16	WG1238391
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0286	1	02/17/2019 16:16	WG1238391
Methyl tert-butyl ether	U		0.000338	0.00114	1	02/17/2019 16:16	WG1238391
Naphthalene	U		0.00357	0.0143	1	02/17/2019 16:16	WG1238391
n-Propylbenzene	U		0.00135	0.00572	1	02/17/2019 16:16	WG1238391
Styrene	U		0.00312	0.0143	1	02/17/2019 16:16	WG1238391
1,1,1,2-Tetrachloroethane	U		0.000572	0.00286	1	02/17/2019 16:16	WG1238391
1,1,2,2-Tetrachloroethane	U		0.000446	0.00286	1	02/17/2019 16:16	WG1238391
1,1,2-Trichlorotrifluoroethane	U		0.000772	0.00286	1	02/17/2019 16:16	WG1238391
Tetrachloroethene	U		0.000801	0.00286	1	02/17/2019 16:16	WG1238391
Toluene	U		0.00143	0.00572	1	02/17/2019 16:16	WG1238391
1,2,3-Trichlorobenzene	U		0.000715	0.00286	1	02/17/2019 16:16	WG1238391
1,2,4-Trichlorobenzene	U		0.00551	0.0143	1	02/17/2019 16:16	WG1238391
1,1,1-Trichloroethane	U		0.000315	0.00286	1	02/17/2019 16:16	WG1238391
1,1,2-Trichloroethane	U		0.00101	0.00286	1	02/17/2019 16:16	WG1238391
Trichloroethene	U		0.000458	0.00114	1	02/21/2019 19:12	WG1240554
Trichlorofluoromethane	U		0.000572	0.00286	1	02/17/2019 16:16	WG1238391
1,2,3-Trichloropropane	U		0.00584	0.0143	1	02/17/2019 16:16	WG1238391
1,2,4-Trimethylbenzene	U		0.00133	0.00572	1	02/17/2019 16:16	WG1238391
1,2,3-Trimethylbenzene	U		0.00132	0.00572	1	02/17/2019 16:16	WG1238391
1,3,5-Trimethylbenzene	U		0.00124	0.00572	1	02/17/2019 16:16	WG1238391
Vinyl acetate	U		0.00403	0.0143	1	02/17/2019 16:16	WG1238391
Vinyl chloride	U		0.000781	0.00286	1	02/17/2019 16:16	WG1238391
Xylenes, Total	U		0.00547	0.00744	1	02/17/2019 16:16	WG1238391
(S) Toluene-d8	97.8			75.0-131		02/17/2019 16:16	WG1238391
(S) Toluene-d8	98.9			75.0-131		02/21/2019 19:12	WG1240554
(S) 4-Bromofluorobenzene	102			67.0-138		02/17/2019 16:16	WG1238391
(S) 4-Bromofluorobenzene	96.0			67.0-138		02/21/2019 19:12	WG1240554
(S) 1,2-Dichloroethane-d4	99.7			70.0-130		02/17/2019 16:16	WG1238391
(S) 1,2-Dichloroethane-d4	95.7			70.0-130		02/21/2019 19:12	WG1240554

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	83.8		1	02/19/2019 13:38	WG1239020

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

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		1.01	2.98	25	02/18/2019 14:20	WG1238623
(S) a,a,a-Trifluorotoluene(FID)	94.7			77.0-120		02/18/2019 14:20	WG1238623

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0163	0.0298	1	02/21/2019 19:31	WG1240554
Acrylonitrile	U		0.00227	0.0149	1	02/17/2019 16:36	WG1238391
Benzene	0.000638	J	0.000477	0.00119	1	02/17/2019 16:36	WG1238391
Bromobenzene	U		0.00125	0.0149	1	02/17/2019 16:36	WG1238391
Bromodichloromethane	U		0.000940	0.00298	1	02/17/2019 16:36	WG1238391
Bromochloromethane	U		0.00135	0.00596	1	02/17/2019 16:36	WG1238391
Bromoform	U		0.00713	0.0298	1	02/17/2019 16:36	WG1238391
Bromomethane	U		0.00441	0.0149	1	02/17/2019 16:36	WG1238391
n-Butylbenzene	U		0.00458	0.0149	1	02/17/2019 16:36	WG1238391
sec-Butylbenzene	U		0.00302	0.0149	1	02/17/2019 16:36	WG1238391
tert-Butylbenzene	U		0.00185	0.00596	1	02/17/2019 16:36	WG1238391
Carbon disulfide	U		0.00484	0.0149	1	02/17/2019 16:36	WG1238391
Carbon tetrachloride	U		0.00129	0.00596	1	02/17/2019 16:36	WG1238391
Chlorobenzene	U		0.000684	0.00298	1	02/17/2019 16:36	WG1238391
Chlorodibromomethane	U		0.000537	0.00298	1	02/17/2019 16:36	WG1238391
Chloroethane	U		0.00129	0.00596	1	02/17/2019 16:36	WG1238391
Chloroform	U		0.000495	0.00298	1	02/17/2019 16:36	WG1238391
Chloromethane	U		0.00166	0.0149	1	02/17/2019 16:36	WG1238391
2-Chlorotoluene	U		0.00110	0.00298	1	02/17/2019 16:36	WG1238391
4-Chlorotoluene	U		0.00135	0.00596	1	02/17/2019 16:36	WG1238391
1,2-Dibromo-3-Chloropropane	U		0.00608	0.0298	1	02/17/2019 16:36	WG1238391
1,2-Dibromoethane	U		0.000626	0.00298	1	02/17/2019 16:36	WG1238391
Dibromomethane	U		0.00119	0.00596	1	02/17/2019 16:36	WG1238391
1,2-Dichlorobenzene	U		0.00173	0.00596	1	02/17/2019 16:36	WG1238391
1,3-Dichlorobenzene	U		0.00203	0.00596	1	02/17/2019 16:36	WG1238391
1,4-Dichlorobenzene	U		0.00235	0.00596	1	02/17/2019 16:36	WG1238391
Dichlorodifluoromethane	U		0.000976	0.00298	1	02/17/2019 16:36	WG1238391
1,1-Dichloroethane	U		0.000686	0.00298	1	02/17/2019 16:36	WG1238391
1,2-Dichloroethane	U		0.000567	0.00298	1	02/17/2019 16:36	WG1238391
1,1-Dichloroethene	U		0.000596	0.00298	1	02/17/2019 16:36	WG1238391
cis-1,2-Dichloroethene	0.00390		0.000823	0.00298	1	02/17/2019 16:36	WG1238391
trans-1,2-Dichloroethene	U		0.00171	0.00596	1	02/17/2019 16:36	WG1238391
1,2-Dichloropropane	U		0.00152	0.00596	1	02/17/2019 16:36	WG1238391
1,1-Dichloropropene	U		0.000835	0.00298	1	02/17/2019 16:36	WG1238391
1,3-Dichloropropane	U		0.00209	0.00596	1	02/17/2019 16:36	WG1238391
cis-1,3-Dichloropropene	U		0.000809	0.00298	1	02/17/2019 16:36	WG1238391
trans-1,3-Dichloropropene	U		0.00183	0.00596	1	02/17/2019 16:36	WG1238391
trans-1,4-Dichloro-2-butene	U		0.00167	0.00596	1	02/17/2019 16:36	WG1238391
2,2-Dichloropropane	U		0.000946	0.00298	1	02/17/2019 16:36	WG1238391
Di-isopropyl ether	U		0.000418	0.00119	1	02/17/2019 16:36	WG1238391
Ethylbenzene	U		0.000632	0.00298	1	02/17/2019 16:36	WG1238391
Hexachloro-1,3-butadiene	U		0.0152	0.0298	1	02/17/2019 16:36	WG1238391
2-Hexanone	U		0.0119	0.0298	1	02/17/2019 16:36	WG1238391
n-Hexane	U		0.00126	0.00596	1	02/17/2019 16:36	WG1238391



Collected date/time: 02/13/19 14:10

L1070864

Volatile Organic Compounds (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		0.00722	0.0149	1	02/17/2019 16:36	WG1238391
Isopropylbenzene	U		0.00103	0.00298	1	02/17/2019 16:36	WG1238391
p-Isopropyltoluene	U		0.00278	0.00596	1	02/17/2019 16:36	WG1238391
2-Butanone (MEK)	U		0.0149	0.0298	1	02/17/2019 16:36	WG1238391
Methylene Chloride	U		0.00792	0.0298	1	02/17/2019 16:36	WG1238391
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0298	1	02/17/2019 16:36	WG1238391
Methyl tert-butyl ether	U		0.000352	0.00119	1	02/17/2019 16:36	WG1238391
Naphthalene	U		0.00372	0.0149	1	02/17/2019 16:36	WG1238391
n-Propylbenzene	U		0.00141	0.00596	1	02/17/2019 16:36	WG1238391
Styrene	U		0.00326	0.0149	1	02/17/2019 16:36	WG1238391
1,1,1,2-Tetrachloroethane	U		0.000596	0.00298	1	02/17/2019 16:36	WG1238391
1,1,2,2-Tetrachloroethane	U		0.000465	0.00298	1	02/17/2019 16:36	WG1238391
1,1,2-Trichlorotrifluoroethane	U		0.000805	0.00298	1	02/17/2019 16:36	WG1238391
Tetrachloroethene	U		0.000835	0.00298	1	02/17/2019 16:36	WG1238391
Toluene	U		0.00149	0.00596	1	02/17/2019 16:36	WG1238391
1,2,3-Trichlorobenzene	U		0.000746	0.00298	1	02/17/2019 16:36	WG1238391
1,2,4-Trichlorobenzene	U		0.00575	0.0149	1	02/17/2019 16:36	WG1238391
1,1,1-Trichloroethane	U		0.000328	0.00298	1	02/17/2019 16:36	WG1238391
1,1,2-Trichloroethane	U		0.00105	0.00298	1	02/17/2019 16:36	WG1238391
Trichloroethene	U		0.000477	0.00119	1	02/21/2019 19:31	WG1240554
Trichlorofluoromethane	U		0.000596	0.00298	1	02/17/2019 16:36	WG1238391
1,2,3-Trichloropropane	U		0.00608	0.0149	1	02/17/2019 16:36	WG1238391
1,2,4-Trimethylbenzene	U		0.00138	0.00596	1	02/17/2019 16:36	WG1238391
1,2,3-Trimethylbenzene	U		0.00137	0.00596	1	02/17/2019 16:36	WG1238391
1,3,5-Trimethylbenzene	U		0.00129	0.00596	1	02/17/2019 16:36	WG1238391
Vinyl acetate	U		0.00420	0.0149	1	02/17/2019 16:36	WG1238391
Vinyl chloride	U		0.000815	0.00298	1	02/17/2019 16:36	WG1238391
Xylenes, Total	U		0.00570	0.00775	1	02/17/2019 16:36	WG1238391
(S) Toluene-d8	99.1			75.0-131		02/17/2019 16:36	WG1238391
(S) Toluene-d8	99.9			75.0-131		02/21/2019 19:31	WG1240554
(S) 4-Bromofluorobenzene	102			67.0-138		02/17/2019 16:36	WG1238391
(S) 4-Bromofluorobenzene	91.8			67.0-138		02/21/2019 19:31	WG1240554
(S) 1,2-Dichloroethane-d4	103			70.0-130		02/17/2019 16:36	WG1238391
(S) 1,2-Dichloroethane-d4	96.7			70.0-130		02/21/2019 19:31	WG1240554

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

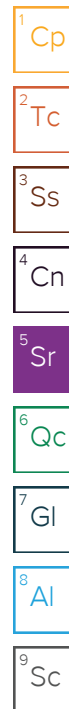
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.8		1	02/19/2019 13:38	WG1239020

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	1.37	<u>J</u>	0.977	2.88	25	02/18/2019 14:41	WG1238623
(S) a,a,a-Trifluorotoluene(FID)	96.1			77.0-120		02/18/2019 14:41	WG1238623

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0158	0.0288	1	02/21/2019 19:50	WG1240554
Acrylonitrile	U		0.00219	0.0144	1	02/17/2019 16:56	WG1238391
Benzene	0.000776	<u>J</u>	0.000461	0.00115	1	02/17/2019 16:56	WG1238391
Bromobenzene	U		0.00121	0.0144	1	02/17/2019 16:56	WG1238391
Bromodichloromethane	U		0.000908	0.00288	1	02/17/2019 16:56	WG1238391
Bromochloromethane	U		0.00130	0.00576	1	02/17/2019 16:56	WG1238391
Bromoform	U		0.00689	0.0288	1	02/17/2019 16:56	WG1238391
Bromomethane	U		0.00426	0.0144	1	02/17/2019 16:56	WG1238391
n-Butylbenzene	U		0.00442	0.0144	1	02/17/2019 16:56	WG1238391
sec-Butylbenzene	U		0.00292	0.0144	1	02/17/2019 16:56	WG1238391
tert-Butylbenzene	U		0.00179	0.00576	1	02/17/2019 16:56	WG1238391
Carbon disulfide	U		0.00468	0.0144	1	02/17/2019 16:56	WG1238391
Carbon tetrachloride	U		0.00124	0.00576	1	02/17/2019 16:56	WG1238391
Chlorobenzene	U		0.000660	0.00288	1	02/17/2019 16:56	WG1238391
Chlorodibromomethane	U		0.000518	0.00288	1	02/17/2019 16:56	WG1238391
Chloroethane	U		0.00124	0.00576	1	02/17/2019 16:56	WG1238391
Chloroform	U		0.000478	0.00288	1	02/17/2019 16:56	WG1238391
Chloromethane	U		0.00160	0.0144	1	02/17/2019 16:56	WG1238391
2-Chlorotoluene	U		0.00106	0.00288	1	02/17/2019 16:56	WG1238391
4-Chlorotoluene	U		0.00130	0.00576	1	02/17/2019 16:56	WG1238391
1,2-Dibromo-3-Chloropropane	U		0.00588	0.0288	1	02/17/2019 16:56	WG1238391
1,2-Dibromoethane	U		0.000605	0.00288	1	02/17/2019 16:56	WG1238391
Dibromomethane	U		0.00115	0.00576	1	02/17/2019 16:56	WG1238391
1,2-Dichlorobenzene	U		0.00167	0.00576	1	02/17/2019 16:56	WG1238391
1,3-Dichlorobenzene	U		0.00196	0.00576	1	02/17/2019 16:56	WG1238391
1,4-Dichlorobenzene	U		0.00227	0.00576	1	02/17/2019 16:56	WG1238391
Dichlorodifluoromethane	U		0.000942	0.00288	1	02/17/2019 16:56	WG1238391
1,1-Dichloroethane	U		0.000663	0.00288	1	02/17/2019 16:56	WG1238391
1,2-Dichloroethane	U		0.000547	0.00288	1	02/17/2019 16:56	WG1238391
1,1-Dichloroethene	U		0.000576	0.00288	1	02/17/2019 16:56	WG1238391
cis-1,2-Dichloroethene	0.119		0.000795	0.00288	1	02/17/2019 16:56	WG1238391
trans-1,2-Dichloroethene	0.00169	<u>J</u>	0.00165	0.00576	1	02/17/2019 16:56	WG1238391
1,2-Dichloropropane	U		0.00146	0.00576	1	02/17/2019 16:56	WG1238391
1,1-Dichloropropene	U		0.000807	0.00288	1	02/17/2019 16:56	WG1238391
1,3-Dichloropropane	U		0.00202	0.00576	1	02/17/2019 16:56	WG1238391
cis-1,3-Dichloropropene	U		0.000781	0.00288	1	02/17/2019 16:56	WG1238391
trans-1,3-Dichloropropene	U		0.00176	0.00576	1	02/17/2019 16:56	WG1238391
trans-1,4-Dichloro-2-butene	U		0.00161	0.00576	1	02/17/2019 16:56	WG1238391
2,2-Dichloropropane	U		0.000914	0.00288	1	02/17/2019 16:56	WG1238391
Di-isopropyl ether	U		0.000403	0.00115	1	02/17/2019 16:56	WG1238391
Ethylbenzene	U		0.000611	0.00288	1	02/17/2019 16:56	WG1238391
Hexachloro-1,3-butadiene	U		0.0146	0.0288	1	02/17/2019 16:56	WG1238391
2-Hexanone	U		0.0115	0.0288	1	02/17/2019 16:56	WG1238391
n-Hexane	U		0.00122	0.00576	1	02/17/2019 16:56	WG1238391





Collected date/time: 02/13/19 14:15

L1070864

Volatile Organic Compounds (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		0.00697	0.0144	1	02/17/2019 16:56	WG1238391
Isopropylbenzene	U		0.000994	0.00288	1	02/17/2019 16:56	WG1238391
p-Isopropyltoluene	U		0.00268	0.00576	1	02/17/2019 16:56	WG1238391
2-Butanone (MEK)	U		0.0144	0.0288	1	02/17/2019 16:56	WG1238391
Methylene Chloride	U		0.00765	0.0288	1	02/17/2019 16:56	WG1238391
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0288	1	02/17/2019 16:56	WG1238391
Methyl tert-butyl ether	U		0.000340	0.00115	1	02/17/2019 16:56	WG1238391
Naphthalene	U		0.00359	0.0144	1	02/17/2019 16:56	WG1238391
n-Propylbenzene	U		0.00136	0.00576	1	02/17/2019 16:56	WG1238391
Styrene	U		0.00315	0.0144	1	02/17/2019 16:56	WG1238391
1,1,1,2-Tetrachloroethane	U		0.000576	0.00288	1	02/17/2019 16:56	WG1238391
1,1,2,2-Tetrachloroethane	U		0.000449	0.00288	1	02/17/2019 16:56	WG1238391
1,1,2-Trichlorotrifluoroethane	U		0.000778	0.00288	1	02/17/2019 16:56	WG1238391
Tetrachloroethene	U		0.000807	0.00288	1	02/17/2019 16:56	WG1238391
Toluene	U		0.00144	0.00576	1	02/17/2019 16:56	WG1238391
1,2,3-Trichlorobenzene	U		0.000720	0.00288	1	02/17/2019 16:56	WG1238391
1,2,4-Trichlorobenzene	U		0.00555	0.0144	1	02/17/2019 16:56	WG1238391
1,1,1-Trichloroethane	U		0.000317	0.00288	1	02/17/2019 16:56	WG1238391
1,1,2-Trichloroethane	U		0.00102	0.00288	1	02/17/2019 16:56	WG1238391
Trichloroethene	U		0.000461	0.00115	1	02/21/2019 19:50	WG1240554
Trichlorofluoromethane	U		0.000576	0.00288	1	02/17/2019 16:56	WG1238391
1,2,3-Trichloropropane	U		0.00588	0.0144	1	02/17/2019 16:56	WG1238391
1,2,4-Trimethylbenzene	U		0.00134	0.00576	1	02/17/2019 16:56	WG1238391
1,2,3-Trimethylbenzene	U		0.00133	0.00576	1	02/17/2019 16:56	WG1238391
1,3,5-Trimethylbenzene	U		0.00124	0.00576	1	02/17/2019 16:56	WG1238391
Vinyl acetate	U		0.00406	0.0144	1	02/17/2019 16:56	WG1238391
Vinyl chloride	0.00675		0.000787	0.00288	1	02/17/2019 16:56	WG1238391
Xylenes, Total	U		0.00551	0.00749	1	02/17/2019 16:56	WG1238391
(S) Toluene-d8	100			75.0-131		02/17/2019 16:56	WG1238391
(S) Toluene-d8	99.2			75.0-131		02/21/2019 19:50	WG1240554
(S) 4-Bromofluorobenzene	102			67.0-138		02/17/2019 16:56	WG1238391
(S) 4-Bromofluorobenzene	95.5			67.0-138		02/21/2019 19:50	WG1240554
(S) 1,2-Dichloroethane-d4	99.2			70.0-130		02/17/2019 16:56	WG1238391
(S) 1,2-Dichloroethane-d4	96.9			70.0-130		02/21/2019 19:50	WG1240554

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	88.5		1	02/19/2019 13:38	WG1239020

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	1.21	<u>J</u>	0.958	2.82	25	02/18/2019 15:03	WG1238623
(S) a,a,a-Trifluorotoluene(FID)	94.5			77.0-120		02/18/2019 15:03	WG1238623

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0155	0.0282	1	02/21/2019 20:09	WG1240554
Acrylonitrile	U		0.00215	0.0141	1	02/17/2019 17:16	WG1238391
Benzene	0.000572	<u>J</u>	0.000452	0.00113	1	02/17/2019 17:16	WG1238391
Bromobenzene	U		0.00119	0.0141	1	02/17/2019 17:16	WG1238391
Bromodichloromethane	U		0.000890	0.00282	1	02/17/2019 17:16	WG1238391
Bromochloromethane	U		0.00128	0.00565	1	02/17/2019 17:16	WG1238391
Bromoform	U		0.00676	0.0282	1	02/17/2019 17:16	WG1238391
Bromomethane	U		0.00418	0.0141	1	02/17/2019 17:16	WG1238391
n-Butylbenzene	U		0.00434	0.0141	1	02/17/2019 17:16	WG1238391
sec-Butylbenzene	U		0.00286	0.0141	1	02/17/2019 17:16	WG1238391
tert-Butylbenzene	U		0.00175	0.00565	1	02/17/2019 17:16	WG1238391
Carbon disulfide	U		0.00459	0.0141	1	02/17/2019 17:16	WG1238391
Carbon tetrachloride	U		0.00122	0.00565	1	02/17/2019 17:16	WG1238391
Chlorobenzene	U		0.000647	0.00282	1	02/17/2019 17:16	WG1238391
Chlorodibromomethane	U		0.000508	0.00282	1	02/17/2019 17:16	WG1238391
Chloroethane	U		0.00122	0.00565	1	02/17/2019 17:16	WG1238391
Chloroform	U		0.000469	0.00282	1	02/17/2019 17:16	WG1238391
Chloromethane	U		0.00157	0.0141	1	02/17/2019 17:16	WG1238391
2-Chlorotoluene	U		0.00104	0.00282	1	02/17/2019 17:16	WG1238391
4-Chlorotoluene	U		0.00128	0.00565	1	02/17/2019 17:16	WG1238391
1,2-Dibromo-3-Chloropropane	U		0.00576	0.0282	1	02/17/2019 17:16	WG1238391
1,2-Dibromoethane	U		0.000593	0.00282	1	02/17/2019 17:16	WG1238391
Dibromomethane	U		0.00113	0.00565	1	02/17/2019 17:16	WG1238391
1,2-Dichlorobenzene	U		0.00164	0.00565	1	02/17/2019 17:16	WG1238391
1,3-Dichlorobenzene	U		0.00192	0.00565	1	02/17/2019 17:16	WG1238391
1,4-Dichlorobenzene	U		0.00223	0.00565	1	02/17/2019 17:16	WG1238391
Dichlorodifluoromethane	U		0.000924	0.00282	1	02/17/2019 17:16	WG1238391
1,1-Dichloroethane	U		0.000650	0.00282	1	02/17/2019 17:16	WG1238391
1,2-Dichloroethane	U		0.000537	0.00282	1	02/17/2019 17:16	WG1238391
1,1-Dichloroethene	U		0.000565	0.00282	1	02/17/2019 17:16	WG1238391
cis-1,2-Dichloroethene	0.0369		0.000780	0.00282	1	02/17/2019 17:16	WG1238391
trans-1,2-Dichloroethene	U		0.00162	0.00565	1	02/17/2019 17:16	WG1238391
1,2-Dichloropropane	U		0.00143	0.00565	1	02/17/2019 17:16	WG1238391
1,1-Dichloropropene	U		0.000791	0.00282	1	02/17/2019 17:16	WG1238391
1,3-Dichloropropane	U		0.00198	0.00565	1	02/17/2019 17:16	WG1238391
cis-1,3-Dichloropropene	U		0.000766	0.00282	1	02/17/2019 17:16	WG1238391
trans-1,3-Dichloropropene	U		0.00173	0.00565	1	02/17/2019 17:16	WG1238391
trans-1,4-Dichloro-2-butene	U		0.00158	0.00565	1	02/17/2019 17:16	WG1238391
2,2-Dichloropropane	U		0.000896	0.00282	1	02/17/2019 17:16	WG1238391
Di-isopropyl ether	U		0.000395	0.00113	1	02/17/2019 17:16	WG1238391
Ethylbenzene	U		0.000599	0.00282	1	02/17/2019 17:16	WG1238391
Hexachloro-1,3-butadiene	U		0.0143	0.0282	1	02/17/2019 17:16	WG1238391
2-Hexanone	U		0.0113	0.0282	1	02/17/2019 17:16	WG1238391
n-Hexane	U		0.00120	0.00565	1	02/17/2019 17:16	WG1238391





Collected date/time: 02/13/19 14:20

L1070864

Volatile Organic Compounds (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		0.00684	0.0141	1	02/17/2019 17:16	WG1238391
Isopropylbenzene	U		0.000975	0.00282	1	02/17/2019 17:16	WG1238391
p-Isopropyltoluene	U		0.00263	0.00565	1	02/17/2019 17:16	WG1238391
2-Butanone (MEK)	0.0205	U	0.0141	0.0282	1	02/17/2019 17:16	WG1238391
Methylene Chloride	U		0.00750	0.0282	1	02/17/2019 17:16	WG1238391
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0282	1	02/17/2019 17:16	WG1238391
Methyl tert-butyl ether	U		0.000333	0.00113	1	02/17/2019 17:16	WG1238391
Naphthalene	U		0.00352	0.0141	1	02/17/2019 17:16	WG1238391
n-Propylbenzene	U		0.00133	0.00565	1	02/17/2019 17:16	WG1238391
Styrene	U		0.00308	0.0141	1	02/17/2019 17:16	WG1238391
1,1,1,2-Tetrachloroethane	U		0.000565	0.00282	1	02/17/2019 17:16	WG1238391
1,1,2,2-Tetrachloroethane	U		0.000441	0.00282	1	02/17/2019 17:16	WG1238391
1,1,2-Trichlorotrifluoroethane	U		0.000763	0.00282	1	02/17/2019 17:16	WG1238391
Tetrachloroethene	0.00198	U	0.000791	0.00282	1	02/17/2019 17:16	WG1238391
Toluene	0.00158	U	0.00141	0.00565	1	02/17/2019 17:16	WG1238391
1,2,3-Trichlorobenzene	U		0.000706	0.00282	1	02/17/2019 17:16	WG1238391
1,2,4-Trichlorobenzene	U		0.00545	0.0141	1	02/17/2019 17:16	WG1238391
1,1,1-Trichloroethane	U		0.000311	0.00282	1	02/17/2019 17:16	WG1238391
1,1,2-Trichloroethane	U		0.000998	0.00282	1	02/17/2019 17:16	WG1238391
Trichloroethene	U		0.000452	0.00113	1	02/21/2019 20:09	WG1240554
Trichlorofluoromethane	U		0.000565	0.00282	1	02/17/2019 17:16	WG1238391
1,2,3-Trichloropropane	U		0.00576	0.0141	1	02/17/2019 17:16	WG1238391
1,2,4-Trimethylbenzene	U		0.00131	0.00565	1	02/17/2019 17:16	WG1238391
1,2,3-Trimethylbenzene	U		0.00130	0.00565	1	02/17/2019 17:16	WG1238391
1,3,5-Trimethylbenzene	U		0.00122	0.00565	1	02/17/2019 17:16	WG1238391
Vinyl acetate	U		0.00398	0.0141	1	02/17/2019 17:16	WG1238391
Vinyl chloride	U		0.000772	0.00282	1	02/17/2019 17:16	WG1238391
Xylenes, Total	U		0.00540	0.00734	1	02/17/2019 17:16	WG1238391
(S) Toluene-d8	98.7			75.0-131		02/17/2019 17:16	WG1238391
(S) Toluene-d8	101			75.0-131		02/21/2019 20:09	WG1240554
(S) 4-Bromofluorobenzene	100			67.0-138		02/17/2019 17:16	WG1238391
(S) 4-Bromofluorobenzene	95.8			67.0-138		02/21/2019 20:09	WG1240554
(S) 1,2-Dichloroethane-d4	101			70.0-130		02/17/2019 17:16	WG1238391
(S) 1,2-Dichloroethane-d4	96.0			70.0-130		02/21/2019 20:09	WG1240554

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	81.3		1	02/19/2019 13:38	WG1239020

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	2.31	J	1.04	3.08	25	02/18/2019 15:24	WG1238623
(S) a,a,a-Trifluorotoluene(FID)	95.8			77.0-120		02/18/2019 15:24	WG1238623

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0169	0.0308	1	02/21/2019 20:29	WG1240554
Acrylonitrile	U		0.00234	0.0154	1	02/17/2019 17:36	WG1238391
Benzene	0.000654	J	0.000492	0.00123	1	02/17/2019 17:36	WG1238391
Bromobenzene	U		0.00129	0.0154	1	02/17/2019 17:36	WG1238391
Bromodichloromethane	U		0.000970	0.00308	1	02/17/2019 17:36	WG1238391
Bromochloromethane	U		0.00139	0.00615	1	02/17/2019 17:36	WG1238391
Bromoform	U		0.00736	0.0308	1	02/17/2019 17:36	WG1238391
Bromomethane	U		0.00455	0.0154	1	02/17/2019 17:36	WG1238391
n-Butylbenzene	U		0.00473	0.0154	1	02/17/2019 17:36	WG1238391
sec-Butylbenzene	U		0.00311	0.0154	1	02/17/2019 17:36	WG1238391
tert-Butylbenzene	U		0.00191	0.00615	1	02/17/2019 17:36	WG1238391
Carbon disulfide	U		0.00500	0.0154	1	02/17/2019 17:36	WG1238391
Carbon tetrachloride	U		0.00133	0.00615	1	02/17/2019 17:36	WG1238391
Chlorobenzene	U		0.000705	0.00308	1	02/17/2019 17:36	WG1238391
Chlorodibromomethane	U		0.000554	0.00308	1	02/17/2019 17:36	WG1238391
Chloroethane	U		0.00133	0.00615	1	02/17/2019 17:36	WG1238391
Chloroform	U		0.000511	0.00308	1	02/17/2019 17:36	WG1238391
Chloromethane	U		0.00171	0.0154	1	02/17/2019 17:36	WG1238391
2-Chlorotoluene	U		0.00113	0.00308	1	02/17/2019 17:36	WG1238391
4-Chlorotoluene	U		0.00139	0.00615	1	02/17/2019 17:36	WG1238391
1,2-Dibromo-3-Chloropropane	U		0.00628	0.0308	1	02/17/2019 17:36	WG1238391
1,2-Dibromoethane	U		0.000646	0.00308	1	02/17/2019 17:36	WG1238391
Dibromomethane	U		0.00123	0.00615	1	02/17/2019 17:36	WG1238391
1,2-Dichlorobenzene	U		0.00178	0.00615	1	02/17/2019 17:36	WG1238391
1,3-Dichlorobenzene	U		0.00209	0.00615	1	02/17/2019 17:36	WG1238391
1,4-Dichlorobenzene	U		0.00242	0.00615	1	02/17/2019 17:36	WG1238391
Dichlorodifluoromethane	U		0.00101	0.00308	1	02/17/2019 17:36	WG1238391
1,1-Dichloroethane	U		0.000708	0.00308	1	02/17/2019 17:36	WG1238391
1,2-Dichloroethane	U		0.000585	0.00308	1	02/17/2019 17:36	WG1238391
1,1-Dichloroethene	U		0.000615	0.00308	1	02/17/2019 17:36	WG1238391
cis-1,2-Dichloroethene	0.471		0.000849	0.00308	1	02/17/2019 17:36	WG1238391
trans-1,2-Dichloroethene	0.00227	J	0.00176	0.00615	1	02/17/2019 17:36	WG1238391
1,2-Dichloropropane	U		0.00156	0.00615	1	02/17/2019 17:36	WG1238391
1,1-Dichloropropene	U		0.000861	0.00308	1	02/17/2019 17:36	WG1238391
1,3-Dichloropropane	U		0.00215	0.00615	1	02/17/2019 17:36	WG1238391
cis-1,3-Dichloropropene	U		0.000834	0.00308	1	02/17/2019 17:36	WG1238391
trans-1,3-Dichloropropene	U		0.00188	0.00615	1	02/17/2019 17:36	WG1238391
trans-1,4-Dichloro-2-butene	U		0.00172	0.00615	1	02/17/2019 17:36	WG1238391
2,2-Dichloropropane	U		0.000976	0.00308	1	02/17/2019 17:36	WG1238391
Di-isopropyl ether	U		0.000431	0.00123	1	02/17/2019 17:36	WG1238391
Ethylbenzene	U		0.000652	0.00308	1	02/17/2019 17:36	WG1238391
Hexachloro-1,3-butadiene	U		0.0156	0.0308	1	02/17/2019 17:36	WG1238391
2-Hexanone	U		0.0123	0.0308	1	02/17/2019 17:36	WG1238391
n-Hexane	U		0.00130	0.00615	1	02/17/2019 17:36	WG1238391

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/13/19 14:25

L1070864

Volatile Organic Compounds (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		0.00745	0.0154	1	02/17/2019 17:36	WG1238391
Isopropylbenzene	U		0.00106	0.00308	1	02/17/2019 17:36	WG1238391
p-Isopropyltoluene	U		0.00287	0.00615	1	02/17/2019 17:36	WG1238391
2-Butanone (MEK)	0.0288	J	0.0154	0.0308	1	02/17/2019 17:36	WG1238391
Methylene Chloride	U		0.00817	0.0308	1	02/17/2019 17:36	WG1238391
4-Methyl-2-pentanone (MIBK)	U		0.0123	0.0308	1	02/17/2019 17:36	WG1238391
Methyl tert-butyl ether	U		0.000363	0.00123	1	02/17/2019 17:36	WG1238391
Naphthalene	U		0.00384	0.0154	1	02/17/2019 17:36	WG1238391
n-Propylbenzene	U		0.00145	0.00615	1	02/17/2019 17:36	WG1238391
Styrene	U		0.00336	0.0154	1	02/17/2019 17:36	WG1238391
1,1,1,2-Tetrachloroethane	U		0.000615	0.00308	1	02/17/2019 17:36	WG1238391
1,1,2,2-Tetrachloroethane	U		0.000480	0.00308	1	02/17/2019 17:36	WG1238391
1,1,2-Trichlorotrifluoroethane	U		0.000831	0.00308	1	02/17/2019 17:36	WG1238391
Tetrachloroethene	0.265		0.000861	0.00308	1	02/17/2019 17:36	WG1238391
Toluene	0.00156	J	0.00154	0.00615	1	02/17/2019 17:36	WG1238391
1,2,3-Trichlorobenzene	U		0.000769	0.00308	1	02/17/2019 17:36	WG1238391
1,2,4-Trichlorobenzene	U		0.00593	0.0154	1	02/17/2019 17:36	WG1238391
1,1,1-Trichloroethane	U		0.000338	0.00308	1	02/17/2019 17:36	WG1238391
1,1,2-Trichloroethane	U		0.00109	0.00308	1	02/17/2019 17:36	WG1238391
Trichloroethene	0.0163		0.000492	0.00123	1	02/21/2019 20:29	WG1240554
Trichlorofluoromethane	U		0.000615	0.00308	1	02/17/2019 17:36	WG1238391
1,2,3-Trichloropropane	U		0.00628	0.0154	1	02/17/2019 17:36	WG1238391
1,2,4-Trimethylbenzene	U		0.00143	0.00615	1	02/17/2019 17:36	WG1238391
1,2,3-Trimethylbenzene	U		0.00142	0.00615	1	02/17/2019 17:36	WG1238391
1,3,5-Trimethylbenzene	U		0.00133	0.00615	1	02/17/2019 17:36	WG1238391
Vinyl acetate	U		0.00433	0.0154	1	02/17/2019 17:36	WG1238391
Vinyl chloride	U		0.000841	0.00308	1	02/17/2019 17:36	WG1238391
Xylenes, Total	U		0.00588	0.00800	1	02/17/2019 17:36	WG1238391
(S) Toluene-d8	100			75.0-131		02/17/2019 17:36	WG1238391
(S) Toluene-d8	101			75.0-131		02/21/2019 20:29	WG1240554
(S) 4-Bromofluorobenzene	102			67.0-138		02/17/2019 17:36	WG1238391
(S) 4-Bromofluorobenzene	90.7			67.0-138		02/21/2019 20:29	WG1240554
(S) 1,2-Dichloroethane-d4	103			70.0-130		02/17/2019 17:36	WG1238391
(S) 1,2-Dichloroethane-d4	96.7			70.0-130		02/21/2019 20:29	WG1240554

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	88.1		1	02/19/2019 13:38	WG1239020

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	1.27	J	0.962	2.84	25	02/18/2019 15:45	WG1238623
(S) a,a,a-Trifluorotoluene(FID)	95.7			77.0-120		02/18/2019 15:45	WG1238623

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0155	0.0284	1	02/21/2019 20:49	WG1240554
Acrylonitrile	U		0.00216	0.0142	1	02/17/2019 17:57	WG1238391
Benzene	0.00108	J	0.000454	0.00113	1	02/17/2019 17:57	WG1238391
Bromobenzene	U		0.00119	0.0142	1	02/17/2019 17:57	WG1238391
Bromodichloromethane	U		0.000894	0.00284	1	02/17/2019 17:57	WG1238391
Bromochloromethane	U		0.00128	0.00567	1	02/17/2019 17:57	WG1238391
Bromoform	U		0.00679	0.0284	1	02/17/2019 17:57	WG1238391
Bromomethane	U		0.00420	0.0142	1	02/17/2019 17:57	WG1238391
n-Butylbenzene	U		0.00436	0.0142	1	02/17/2019 17:57	WG1238391
sec-Butylbenzene	U		0.00287	0.0142	1	02/17/2019 17:57	WG1238391
tert-Butylbenzene	U		0.00176	0.00567	1	02/17/2019 17:57	WG1238391
Carbon disulfide	U		0.00461	0.0142	1	02/17/2019 17:57	WG1238391
Carbon tetrachloride	U		0.00123	0.00567	1	02/17/2019 17:57	WG1238391
Chlorobenzene	U		0.000650	0.00284	1	02/17/2019 17:57	WG1238391
Chlorodibromomethane	U		0.000511	0.00284	1	02/17/2019 17:57	WG1238391
Chloroethane	U		0.00123	0.00567	1	02/17/2019 17:57	WG1238391
Chloroform	U		0.000471	0.00284	1	02/17/2019 17:57	WG1238391
Chloromethane	U		0.00158	0.0142	1	02/17/2019 17:57	WG1238391
2-Chlorotoluene	U		0.00104	0.00284	1	02/17/2019 17:57	WG1238391
4-Chlorotoluene	U		0.00128	0.00567	1	02/17/2019 17:57	WG1238391
1,2-Dibromo-3-Chloropropane	U		0.00579	0.0284	1	02/17/2019 17:57	WG1238391
1,2-Dibromoethane	U		0.000596	0.00284	1	02/17/2019 17:57	WG1238391
Dibromomethane	U		0.00113	0.00567	1	02/17/2019 17:57	WG1238391
1,2-Dichlorobenzene	U		0.00165	0.00567	1	02/17/2019 17:57	WG1238391
1,3-Dichlorobenzene	U		0.00193	0.00567	1	02/17/2019 17:57	WG1238391
1,4-Dichlorobenzene	U		0.00224	0.00567	1	02/17/2019 17:57	WG1238391
Dichlorodifluoromethane	U		0.000928	0.00284	1	02/17/2019 17:57	WG1238391
1,1-Dichloroethane	U		0.000653	0.00284	1	02/17/2019 17:57	WG1238391
1,2-Dichloroethane	U		0.000539	0.00284	1	02/17/2019 17:57	WG1238391
1,1-Dichloroethene	U		0.000567	0.00284	1	02/17/2019 17:57	WG1238391
cis-1,2-Dichloroethene	0.121		0.000783	0.00284	1	02/17/2019 17:57	WG1238391
trans-1,2-Dichloroethene	0.00300	J	0.00162	0.00567	1	02/17/2019 17:57	WG1238391
1,2-Dichloropropane	U		0.00144	0.00567	1	02/17/2019 17:57	WG1238391
1,1-Dichloropropene	U		0.000794	0.00284	1	02/17/2019 17:57	WG1238391
1,3-Dichloropropane	U		0.00199	0.00567	1	02/17/2019 17:57	WG1238391
cis-1,3-Dichloropropene	U		0.000769	0.00284	1	02/17/2019 17:57	WG1238391
trans-1,3-Dichloropropene	U		0.00174	0.00567	1	02/17/2019 17:57	WG1238391
trans-1,4-Dichloro-2-butene	U		0.00159	0.00567	1	02/17/2019 17:57	WG1238391
2,2-Dichloropropane	U		0.000900	0.00284	1	02/17/2019 17:57	WG1238391
Di-isopropyl ether	U		0.000397	0.00113	1	02/17/2019 17:57	WG1238391
Ethylbenzene	U		0.000602	0.00284	1	02/17/2019 17:57	WG1238391
Hexachloro-1,3-butadiene	U		0.0144	0.0284	1	02/17/2019 17:57	WG1238391
2-Hexanone	U		0.0113	0.0284	1	02/17/2019 17:57	WG1238391
n-Hexane	U		0.00120	0.00567	1	02/17/2019 17:57	WG1238391

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/13/19 14:45

L1070864

Volatile Organic Compounds (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		0.00687	0.0142	1	02/17/2019 17:57	WG1238391
Isopropylbenzene	U		0.000979	0.00284	1	02/17/2019 17:57	WG1238391
p-Isopropyltoluene	U		0.00264	0.00567	1	02/17/2019 17:57	WG1238391
2-Butanone (MEK)	U		0.0142	0.0284	1	02/17/2019 17:57	WG1238391
Methylene Chloride	U		0.00754	0.0284	1	02/17/2019 17:57	WG1238391
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0284	1	02/17/2019 17:57	WG1238391
Methyl tert-butyl ether	U		0.000335	0.00113	1	02/17/2019 17:57	WG1238391
Naphthalene	U		0.00354	0.0142	1	02/17/2019 17:57	WG1238391
n-Propylbenzene	U		0.00134	0.00567	1	02/17/2019 17:57	WG1238391
Styrene	U		0.00310	0.0142	1	02/17/2019 17:57	WG1238391
1,1,1,2-Tetrachloroethane	U		0.000567	0.00284	1	02/17/2019 17:57	WG1238391
1,1,2,2-Tetrachloroethane	U		0.000443	0.00284	1	02/17/2019 17:57	WG1238391
1,1,2-Trichlorotrifluoroethane	U		0.000766	0.00284	1	02/17/2019 17:57	WG1238391
Tetrachloroethene	U		0.000794	0.00284	1	02/17/2019 17:57	WG1238391
Toluene	0.00196	J	0.00142	0.00567	1	02/17/2019 17:57	WG1238391
1,2,3-Trichlorobenzene	U		0.000709	0.00284	1	02/17/2019 17:57	WG1238391
1,2,4-Trichlorobenzene	U		0.00547	0.0142	1	02/17/2019 17:57	WG1238391
1,1,1-Trichloroethane	U		0.000312	0.00284	1	02/17/2019 17:57	WG1238391
1,1,2-Trichloroethane	U		0.00100	0.00284	1	02/17/2019 17:57	WG1238391
Trichloroethene	U		0.000454	0.00113	1	02/21/2019 20:49	WG1240554
Trichlorofluoromethane	U		0.000567	0.00284	1	02/17/2019 17:57	WG1238391
1,2,3-Trichloropropane	U		0.00579	0.0142	1	02/17/2019 17:57	WG1238391
1,2,4-Trimethylbenzene	U		0.00132	0.00567	1	02/17/2019 17:57	WG1238391
1,2,3-Trimethylbenzene	U		0.00131	0.00567	1	02/17/2019 17:57	WG1238391
1,3,5-Trimethylbenzene	U		0.00123	0.00567	1	02/17/2019 17:57	WG1238391
Vinyl acetate	U		0.00400	0.0142	1	02/17/2019 17:57	WG1238391
Vinyl chloride	U		0.000775	0.00284	1	02/17/2019 17:57	WG1238391
Xylenes, Total	U		0.00543	0.00738	1	02/17/2019 17:57	WG1238391
(S) Toluene-d8	99.5			75.0-131		02/17/2019 17:57	WG1238391
(S) Toluene-d8	101			75.0-131		02/21/2019 20:49	WG1240554
(S) 4-Bromofluorobenzene	102			67.0-138		02/17/2019 17:57	WG1238391
(S) 4-Bromofluorobenzene	91.7			67.0-138		02/21/2019 20:49	WG1240554
(S) 1,2-Dichloroethane-d4	102			70.0-130		02/17/2019 17:57	WG1238391
(S) 1,2-Dichloroethane-d4	95.6			70.0-130		02/21/2019 20:49	WG1240554

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

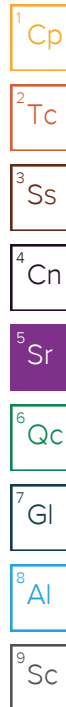
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.8		1	02/19/2019 13:20	WG1239021

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	1.40	J	1.00	2.95	25	02/18/2019 16:07	WG1238623
(S) a,a,a-Trifluorotoluene(FID)	96.2			77.0-120		02/18/2019 16:07	WG1238623

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0162	0.0295	1	02/21/2019 21:08	WG1240554
Acrylonitrile	U		0.00224	0.0147	1	02/17/2019 18:17	WG1238391
Benzene	0.000509	J	0.000472	0.00118	1	02/17/2019 18:17	WG1238391
Bromobenzene	U		0.00124	0.0147	1	02/17/2019 18:17	WG1238391
Bromodichloromethane	U		0.000930	0.00295	1	02/17/2019 18:17	WG1238391
Bromochloromethane	U		0.00133	0.00590	1	02/17/2019 18:17	WG1238391
Bromoform	U		0.00706	0.0295	1	02/17/2019 18:17	WG1238391
Bromomethane	U		0.00437	0.0147	1	02/17/2019 18:17	WG1238391
n-Butylbenzene	U		0.00453	0.0147	1	02/17/2019 18:17	WG1238391
sec-Butylbenzene	U		0.00298	0.0147	1	02/17/2019 18:17	WG1238391
tert-Butylbenzene	U		0.00183	0.00590	1	02/17/2019 18:17	WG1238391
Carbon disulfide	U		0.00479	0.0147	1	02/17/2019 18:17	WG1238391
Carbon tetrachloride	U		0.00127	0.00590	1	02/17/2019 18:17	WG1238391
Chlorobenzene	U		0.000676	0.00295	1	02/17/2019 18:17	WG1238391
Chlorodibromomethane	U		0.000531	0.00295	1	02/17/2019 18:17	WG1238391
Chloroethane	U		0.00127	0.00590	1	02/17/2019 18:17	WG1238391
Chloroform	U		0.000490	0.00295	1	02/17/2019 18:17	WG1238391
Chloromethane	U		0.00164	0.0147	1	02/17/2019 18:17	WG1238391
2-Chlorotoluene	U		0.00109	0.00295	1	02/17/2019 18:17	WG1238391
4-Chlorotoluene	U		0.00133	0.00590	1	02/17/2019 18:17	WG1238391
1,2-Dibromo-3-Chloropropane	U		0.00602	0.0295	1	02/17/2019 18:17	WG1238391
1,2-Dibromoethane	U		0.000619	0.00295	1	02/17/2019 18:17	WG1238391
Dibromomethane	U		0.00118	0.00590	1	02/17/2019 18:17	WG1238391
1,2-Dichlorobenzene	U		0.00171	0.00590	1	02/17/2019 18:17	WG1238391
1,3-Dichlorobenzene	U		0.00201	0.00590	1	02/17/2019 18:17	WG1238391
1,4-Dichlorobenzene	U		0.00232	0.00590	1	02/17/2019 18:17	WG1238391
Dichlorodifluoromethane	U		0.000965	0.00295	1	02/17/2019 18:17	WG1238391
1,1-Dichloroethane	U		0.000678	0.00295	1	02/17/2019 18:17	WG1238391
1,2-Dichloroethane	U		0.000560	0.00295	1	02/17/2019 18:17	WG1238391
1,1-Dichloroethene	U		0.000590	0.00295	1	02/17/2019 18:17	WG1238391
cis-1,2-Dichloroethene	0.108		0.000814	0.00295	1	02/17/2019 18:17	WG1238391
trans-1,2-Dichloroethene	0.00198	J	0.00169	0.00590	1	02/17/2019 18:17	WG1238391
1,2-Dichloropropane	U		0.00150	0.00590	1	02/17/2019 18:17	WG1238391
1,1-Dichloropropene	U		0.000826	0.00295	1	02/17/2019 18:17	WG1238391
1,3-Dichloropropane	U		0.00206	0.00590	1	02/17/2019 18:17	WG1238391
cis-1,3-Dichloropropene	U		0.000800	0.00295	1	02/17/2019 18:17	WG1238391
trans-1,3-Dichloropropene	U		0.00181	0.00590	1	02/17/2019 18:17	WG1238391
trans-1,4-Dichloro-2-butene	U		0.00165	0.00590	1	02/17/2019 18:17	WG1238391
2,2-Dichloropropane	U		0.000936	0.00295	1	02/17/2019 18:17	WG1238391
Di-isopropyl ether	U		0.000413	0.00118	1	02/17/2019 18:17	WG1238391
Ethylbenzene	U		0.000625	0.00295	1	02/17/2019 18:17	WG1238391
Hexachloro-1,3-butadiene	U		0.0150	0.0295	1	02/17/2019 18:17	WG1238391
2-Hexanone	U		0.0118	0.0295	1	02/17/2019 18:17	WG1238391
n-Hexane	U		0.00125	0.00590	1	02/17/2019 18:17	WG1238391





Collected date/time: 02/13/19 14:50

L1070864

Volatile Organic Compounds (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		0.00714	0.0147	1	02/17/2019 18:17	WG1238391
Isopropylbenzene	U		0.00102	0.00295	1	02/17/2019 18:17	WG1238391
p-Isopropyltoluene	U		0.00275	0.00590	1	02/17/2019 18:17	WG1238391
2-Butanone (MEK)	0.0194	J	0.0147	0.0295	1	02/17/2019 18:17	WG1238391
Methylene Chloride	U		0.00783	0.0295	1	02/17/2019 18:17	WG1238391
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0295	1	02/17/2019 18:17	WG1238391
Methyl tert-butyl ether	U		0.000348	0.00118	1	02/17/2019 18:17	WG1238391
Naphthalene	U		0.00368	0.0147	1	02/17/2019 18:17	WG1238391
n-Propylbenzene	U		0.00139	0.00590	1	02/17/2019 18:17	WG1238391
Styrene	U		0.00322	0.0147	1	02/17/2019 18:17	WG1238391
1,1,1,2-Tetrachloroethane	U		0.000590	0.00295	1	02/17/2019 18:17	WG1238391
1,1,2,2-Tetrachloroethane	U		0.000460	0.00295	1	02/17/2019 18:17	WG1238391
1,1,2-Trichlorotrifluoroethane	U		0.000796	0.00295	1	02/17/2019 18:17	WG1238391
Tetrachloroethene	0.0279		0.000826	0.00295	1	02/17/2019 18:17	WG1238391
Toluene	0.00167	J	0.00147	0.00590	1	02/17/2019 18:17	WG1238391
1,2,3-Trichlorobenzene	U		0.000737	0.00295	1	02/17/2019 18:17	WG1238391
1,2,4-Trichlorobenzene	U		0.00569	0.0147	1	02/17/2019 18:17	WG1238391
1,1,1-Trichloroethane	U		0.000324	0.00295	1	02/17/2019 18:17	WG1238391
1,1,2-Trichloroethane	U		0.00104	0.00295	1	02/17/2019 18:17	WG1238391
Trichloroethene	0.00163		0.000472	0.00118	1	02/21/2019 21:08	WG1240554
Trichlorofluoromethane	U		0.000590	0.00295	1	02/17/2019 18:17	WG1238391
1,2,3-Trichloropropane	U		0.00602	0.0147	1	02/17/2019 18:17	WG1238391
1,2,4-Trimethylbenzene	U		0.00137	0.00590	1	02/17/2019 18:17	WG1238391
1,2,3-Trimethylbenzene	U		0.00136	0.00590	1	02/17/2019 18:17	WG1238391
1,3,5-Trimethylbenzene	U		0.00127	0.00590	1	02/17/2019 18:17	WG1238391
Vinyl acetate	U		0.00415	0.0147	1	02/17/2019 18:17	WG1238391
Vinyl chloride	0.0203		0.000806	0.00295	1	02/17/2019 18:17	WG1238391
Xylenes, Total	U		0.00564	0.00767	1	02/17/2019 18:17	WG1238391
(S) Toluene-d8	99.8			75.0-131		02/17/2019 18:17	WG1238391
(S) Toluene-d8	101			75.0-131		02/21/2019 21:08	WG1240554
(S) 4-Bromofluorobenzene	101			67.0-138		02/17/2019 18:17	WG1238391
(S) 4-Bromofluorobenzene	92.2			67.0-138		02/21/2019 21:08	WG1240554
(S) 1,2-Dichloroethane-d4	100			70.0-130		02/17/2019 18:17	WG1238391
(S) 1,2-Dichloroethane-d4	96.1			70.0-130		02/21/2019 21:08	WG1240554

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	85.3		1	02/19/2019 13:20	WG1239021

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0161	0.0293	1	02/21/2019 21:28	WG1240554
Acrylonitrile	U		0.00223	0.0146	1	02/17/2019 18:38	WG1238391
Benzene	0.00147		0.000469	0.00117	1	02/17/2019 18:38	WG1238391
Bromobenzene	U		0.00123	0.0146	1	02/17/2019 18:38	WG1238391
Bromodichloromethane	U		0.000923	0.00293	1	02/17/2019 18:38	WG1238391
Bromochloromethane	U		0.00132	0.00586	1	02/17/2019 18:38	WG1238391
Bromoform	U		0.00701	0.0293	1	02/17/2019 18:38	WG1238391
Bromomethane	U		0.00434	0.0146	1	02/17/2019 18:38	WG1238391
n-Butylbenzene	U		0.00450	0.0146	1	02/17/2019 18:38	WG1238391
sec-Butylbenzene	U		0.00296	0.0146	1	02/17/2019 18:38	WG1238391
tert-Butylbenzene	U		0.00182	0.00586	1	02/17/2019 18:38	WG1238391
Carbon disulfide	U		0.00476	0.0146	1	02/17/2019 18:38	WG1238391
Carbon tetrachloride	U		0.00127	0.00586	1	02/17/2019 18:38	WG1238391
Chlorobenzene	U		0.000671	0.00293	1	02/17/2019 18:38	WG1238391
Chlorodibromomethane	U		0.000527	0.00293	1	02/17/2019 18:38	WG1238391
Chloroethane	U		0.00127	0.00586	1	02/17/2019 18:38	WG1238391
Chloroform	U		0.000486	0.00293	1	02/17/2019 18:38	WG1238391
Chloromethane	U		0.00163	0.0146	1	02/17/2019 18:38	WG1238391
2-Chlorotoluene	U		0.00108	0.00293	1	02/17/2019 18:38	WG1238391
4-Chlorotoluene	U		0.00132	0.00586	1	02/17/2019 18:38	WG1238391
1,2-Dibromo-3-Chloropropane	U		0.00598	0.0293	1	02/17/2019 18:38	WG1238391
1,2-Dibromoethane	U		0.000615	0.00293	1	02/17/2019 18:38	WG1238391
Dibromomethane	U		0.00117	0.00586	1	02/17/2019 18:38	WG1238391
1,2-Dichlorobenzene	U		0.00170	0.00586	1	02/17/2019 18:38	WG1238391
1,3-Dichlorobenzene	U		0.00199	0.00586	1	02/17/2019 18:38	WG1238391
1,4-Dichlorobenzene	U		0.00231	0.00586	1	02/17/2019 18:38	WG1238391
Dichlorodifluoromethane	U		0.000958	0.00293	1	02/17/2019 18:38	WG1238391
1,1-Dichloroethane	U		0.000674	0.00293	1	02/17/2019 18:38	WG1238391
1,2-Dichloroethane	U		0.000557	0.00293	1	02/17/2019 18:38	WG1238391
1,1-Dichloroethene	U		0.000586	0.00293	1	02/17/2019 18:38	WG1238391
cis-1,2-Dichloroethene	0.0484		0.000809	0.00293	1	02/17/2019 18:38	WG1238391
trans-1,2-Dichloroethene	0.00325	J	0.00168	0.00586	1	02/17/2019 18:38	WG1238391
1,2-Dichloropropane	U		0.00149	0.00586	1	02/17/2019 18:38	WG1238391
1,1-Dichloropropene	U		0.000820	0.00293	1	02/17/2019 18:38	WG1238391
1,3-Dichloropropane	U		0.00205	0.00586	1	02/17/2019 18:38	WG1238391
cis-1,3-Dichloropropene	U		0.000794	0.00293	1	02/17/2019 18:38	WG1238391
trans-1,3-Dichloropropene	U		0.00179	0.00586	1	02/17/2019 18:38	WG1238391
trans-1,4-Dichloro-2-butene	U		0.00164	0.00586	1	02/17/2019 18:38	WG1238391
2,2-Dichloropropane	U		0.000929	0.00293	1	02/17/2019 18:38	WG1238391
Di-isopropyl ether	U		0.000410	0.00117	1	02/17/2019 18:38	WG1238391
Ethylbenzene	U		0.000621	0.00293	1	02/17/2019 18:38	WG1238391
Hexachloro-1,3-butadiene	U		0.0149	0.0293	1	02/17/2019 18:38	WG1238391
2-Hexanone	U		0.0117	0.0293	1	02/17/2019 18:38	WG1238391
n-Hexane	0.0115		0.00124	0.00586	1	02/17/2019 18:38	WG1238391
Iodomethane	U		0.00709	0.0146	1	02/17/2019 18:38	WG1238391
Isopropylbenzene	U		0.00101	0.00293	1	02/17/2019 18:38	WG1238391
p-Isopropyltoluene	U		0.00273	0.00586	1	02/17/2019 18:38	WG1238391
2-Butanone (MEK)	U		0.0146	0.0293	1	02/17/2019 18:38	WG1238391
Methylene Chloride	U		0.00778	0.0293	1	02/17/2019 18:38	WG1238391
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0293	1	02/17/2019 18:38	WG1238391

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/14/19 00:00

L1070864

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000346	0.00117	1	02/17/2019 18:38	WG1238391
Naphthalene	U		0.00366	0.0146	1	02/17/2019 18:38	WG1238391
n-Propylbenzene	U		0.00138	0.00586	1	02/17/2019 18:38	WG1238391
Styrene	U		0.00320	0.0146	1	02/17/2019 18:38	WG1238391
1,1,1,2-Tetrachloroethane	U		0.000586	0.00293	1	02/17/2019 18:38	WG1238391
1,1,2,2-Tetrachloroethane	U		0.000457	0.00293	1	02/17/2019 18:38	WG1238391
1,1,2-Trichlorotrifluoroethane	U		0.000791	0.00293	1	02/17/2019 18:38	WG1238391
Tetrachloroethene	0.140		0.000820	0.00293	1	02/17/2019 18:38	WG1238391
Toluene	0.00260	L	0.00146	0.00586	1	02/17/2019 18:38	WG1238391
1,2,3-Trichlorobenzene	U		0.000732	0.00293	1	02/17/2019 18:38	WG1238391
1,2,4-Trichlorobenzene	U		0.00565	0.0146	1	02/17/2019 18:38	WG1238391
1,1,1-Trichloroethane	U		0.000322	0.00293	1	02/17/2019 18:38	WG1238391
1,1,2-Trichloroethane	U		0.00103	0.00293	1	02/17/2019 18:38	WG1238391
Trichloroethene	0.00203		0.000469	0.00117	1	02/21/2019 21:28	WG1240554
Trichlorofluoromethane	U		0.000586	0.00293	1	02/17/2019 18:38	WG1238391
1,2,3-Trichloropropane	U		0.00598	0.0146	1	02/17/2019 18:38	WG1238391
1,2,4-Trimethylbenzene	0.00148	L	0.00136	0.00586	1	02/17/2019 18:38	WG1238391
1,2,3-Trimethylbenzene	0.00141	L	0.00135	0.00586	1	02/17/2019 18:38	WG1238391
1,3,5-Trimethylbenzene	U		0.00127	0.00586	1	02/17/2019 18:38	WG1238391
Vinyl acetate	U		0.00412	0.0146	1	02/17/2019 18:38	WG1238391
Vinyl chloride	U		0.000800	0.00293	1	02/17/2019 18:38	WG1238391
Xylenes, Total	U		0.00560	0.00762	1	02/17/2019 18:38	WG1238391
(S) Toluene-d8	101			75.0-131		02/17/2019 18:38	WG1238391
(S) Toluene-d8	100			75.0-131		02/21/2019 21:28	WG1240554
(S) 4-Bromofluorobenzene	105			67.0-138		02/17/2019 18:38	WG1238391
(S) 4-Bromofluorobenzene	93.5			67.0-138		02/21/2019 21:28	WG1240554
(S) 1,2-Dichloroethane-d4	102			70.0-130		02/17/2019 18:38	WG1238391
(S) 1,2-Dichloroethane-d4	97.1			70.0-130		02/21/2019 21:28	WG1240554

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/14/19 00:00

L1070864

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.9		1	02/19/2019 13:20	WG1239021

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0160	0.0291	1	02/21/2019 21:47	WG1240554
Acrylonitrile	U		0.00221	0.0146	1	02/17/2019 18:58	WG1238391
Benzene	U		0.000466	0.00116	1	02/17/2019 18:58	WG1238391
Bromobenzene	U		0.00122	0.0146	1	02/17/2019 18:58	WG1238391
Bromodichloromethane	U		0.000917	0.00291	1	02/17/2019 18:58	WG1238391
Bromochloromethane	U		0.00132	0.00582	1	02/17/2019 18:58	WG1238391
Bromoform	U		0.00696	0.0291	1	02/17/2019 18:58	WG1238391
Bromomethane	U		0.00431	0.0146	1	02/17/2019 18:58	WG1238391
n-Butylbenzene	U		0.00447	0.0146	1	02/17/2019 18:58	WG1238391
sec-Butylbenzene	U		0.00295	0.0146	1	02/17/2019 18:58	WG1238391
tert-Butylbenzene	U		0.00180	0.00582	1	02/17/2019 18:58	WG1238391
Carbon disulfide	U		0.00473	0.0146	1	02/17/2019 18:58	WG1238391
Carbon tetrachloride	U		0.00126	0.00582	1	02/17/2019 18:58	WG1238391
Chlorobenzene	U		0.000667	0.00291	1	02/17/2019 18:58	WG1238391
Chlorodibromomethane	U		0.000524	0.00291	1	02/17/2019 18:58	WG1238391
Chloroethane	U		0.00126	0.00582	1	02/17/2019 18:58	WG1238391
Chloroform	U		0.000483	0.00291	1	02/17/2019 18:58	WG1238391
Chloromethane	U		0.00162	0.0146	1	02/17/2019 18:58	WG1238391
2-Chlorotoluene	U		0.00107	0.00291	1	02/17/2019 18:58	WG1238391
4-Chlorotoluene	U		0.00132	0.00582	1	02/17/2019 18:58	WG1238391
1,2-Dibromo-3-Chloropropane	U		0.00594	0.0291	1	02/17/2019 18:58	WG1238391
1,2-Dibromoethane	U		0.000611	0.00291	1	02/17/2019 18:58	WG1238391
Dibromomethane	U		0.00116	0.00582	1	02/17/2019 18:58	WG1238391
1,2-Dichlorobenzene	U		0.00169	0.00582	1	02/17/2019 18:58	WG1238391
1,3-Dichlorobenzene	U		0.00198	0.00582	1	02/17/2019 18:58	WG1238391
1,4-Dichlorobenzene	U		0.00229	0.00582	1	02/17/2019 18:58	WG1238391
Dichlorodifluoromethane	U		0.000952	0.00291	1	02/17/2019 18:58	WG1238391
1,1-Dichloroethane	U		0.000669	0.00291	1	02/17/2019 18:58	WG1238391
1,2-Dichloroethane	U		0.000553	0.00291	1	02/17/2019 18:58	WG1238391
1,1-Dichloroethene	U		0.000582	0.00291	1	02/17/2019 18:58	WG1238391
cis-1,2-Dichloroethene	0.0104		0.000803	0.00291	1	02/17/2019 18:58	WG1238391
trans-1,2-Dichloroethene	U		0.00166	0.00582	1	02/17/2019 18:58	WG1238391
1,2-Dichloropropane	U		0.00148	0.00582	1	02/17/2019 18:58	WG1238391
1,1-Dichloropropene	U		0.000815	0.00291	1	02/17/2019 18:58	WG1238391
1,3-Dichloropropane	U		0.00204	0.00582	1	02/17/2019 18:58	WG1238391
cis-1,3-Dichloropropene	U		0.000789	0.00291	1	02/17/2019 18:58	WG1238391
trans-1,3-Dichloropropene	U		0.00178	0.00582	1	02/17/2019 18:58	WG1238391
trans-1,4-Dichloro-2-butene	U		0.00163	0.00582	1	02/17/2019 18:58	WG1238391
2,2-Dichloropropane	U		0.000923	0.00291	1	02/17/2019 18:58	WG1238391
Di-isopropyl ether	U		0.000407	0.00116	1	02/17/2019 18:58	WG1238391
Ethylbenzene	U		0.000617	0.00291	1	02/17/2019 18:58	WG1238391
Hexachloro-1,3-butadiene	U		0.0148	0.0291	1	02/17/2019 18:58	WG1238391
2-Hexanone	U		0.0116	0.0291	1	02/17/2019 18:58	WG1238391
n-Hexane	U		0.00123	0.00582	1	02/17/2019 18:58	WG1238391
Iodomethane	U		0.00704	0.0146	1	02/17/2019 18:58	WG1238391
Isopropylbenzene	U		0.00100	0.00291	1	02/17/2019 18:58	WG1238391
p-Isopropyltoluene	U		0.00271	0.00582	1	02/17/2019 18:58	WG1238391
2-Butanone (MEK)	U		0.0146	0.0291	1	02/17/2019 18:58	WG1238391
Methylene Chloride	U		0.00773	0.0291	1	02/17/2019 18:58	WG1238391
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0291	1	02/17/2019 18:58	WG1238391

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/14/19 00:00

L1070864

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000343	0.00116	1	02/17/2019 18:58	WG1238391
Naphthalene	U		0.00363	0.0146	1	02/17/2019 18:58	WG1238391
n-Propylbenzene	U		0.00137	0.00582	1	02/17/2019 18:58	WG1238391
Styrene	U		0.00318	0.0146	1	02/17/2019 18:58	WG1238391
1,1,1,2-Tetrachloroethane	U		0.000582	0.00291	1	02/17/2019 18:58	WG1238391
1,1,2,2-Tetrachloroethane	U		0.000454	0.00291	1	02/17/2019 18:58	WG1238391
1,1,2-Trichlorotrifluoroethane	U		0.000786	0.00291	1	02/17/2019 18:58	WG1238391
Tetrachloroethene	0.00298		0.000815	0.00291	1	02/17/2019 18:58	WG1238391
Toluene	U		0.00146	0.00582	1	02/17/2019 18:58	WG1238391
1,2,3-Trichlorobenzene	U		0.000728	0.00291	1	02/17/2019 18:58	WG1238391
1,2,4-Trichlorobenzene	U		0.00561	0.0146	1	02/17/2019 18:58	WG1238391
1,1,1-Trichloroethane	U		0.000320	0.00291	1	02/17/2019 18:58	WG1238391
1,1,2-Trichloroethane	U		0.00103	0.00291	1	02/17/2019 18:58	WG1238391
Trichloroethene	U		0.000466	0.00116	1	02/21/2019 21:47	WG1240554
Trichlorofluoromethane	U		0.000582	0.00291	1	02/17/2019 18:58	WG1238391
1,2,3-Trichloropropane	U		0.00594	0.0146	1	02/17/2019 18:58	WG1238391
1,2,4-Trimethylbenzene	U		0.00135	0.00582	1	02/17/2019 18:58	WG1238391
1,2,3-Trimethylbenzene	U		0.00134	0.00582	1	02/17/2019 18:58	WG1238391
1,3,5-Trimethylbenzene	U		0.00126	0.00582	1	02/17/2019 18:58	WG1238391
Vinyl acetate	U		0.00410	0.0146	1	02/17/2019 18:58	WG1238391
Vinyl chloride	U		0.000795	0.00291	1	02/17/2019 18:58	WG1238391
Xylenes, Total	U		0.00557	0.00757	1	02/17/2019 18:58	WG1238391
(S) Toluene-d8	102			75.0-131		02/17/2019 18:58	WG1238391
(S) Toluene-d8	100			75.0-131		02/21/2019 21:47	WG1240554
(S) 4-Bromofluorobenzene	105			67.0-138		02/17/2019 18:58	WG1238391
(S) 4-Bromofluorobenzene	94.7			67.0-138		02/21/2019 21:47	WG1240554
(S) 1,2-Dichloroethane-d4	102			70.0-130		02/17/2019 18:58	WG1238391
(S) 1,2-Dichloroethane-d4	97.9			70.0-130		02/21/2019 21:47	WG1240554

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

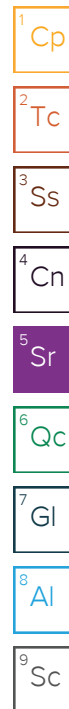


Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.6		1	02/19/2019 13:20	WG1239021

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0162	J	0.0160	0.0292	1	02/21/2019 22:07	WG1240554
Acrylonitrile	U		0.00222	0.0146	1	02/17/2019 19:18	WG1238391
Benzene	U		0.000467	0.00117	1	02/17/2019 19:18	WG1238391
Bromobenzene	U		0.00123	0.0146	1	02/17/2019 19:18	WG1238391
Bromodichloromethane	U		0.000920	0.00292	1	02/17/2019 19:18	WG1238391
Bromochloromethane	U		0.00132	0.00584	1	02/17/2019 19:18	WG1238391
Bromoform	U		0.00698	0.0292	1	02/17/2019 19:18	WG1238391
Bromomethane	U		0.00432	0.0146	1	02/17/2019 19:18	WG1238391
n-Butylbenzene	U		0.00449	0.0146	1	02/17/2019 19:18	WG1238391
sec-Butylbenzene	U		0.00296	0.0146	1	02/17/2019 19:18	WG1238391
tert-Butylbenzene	U		0.00181	0.00584	1	02/17/2019 19:18	WG1238391
Carbon disulfide	U		0.00474	0.0146	1	02/17/2019 19:18	WG1238391
Carbon tetrachloride	U		0.00126	0.00584	1	02/17/2019 19:18	WG1238391
Chlorobenzene	U		0.000669	0.00292	1	02/17/2019 19:18	WG1238391
Chlorodibromomethane	U		0.000526	0.00292	1	02/17/2019 19:18	WG1238391
Chloroethane	U		0.00126	0.00584	1	02/17/2019 19:18	WG1238391
Chloroform	U		0.000485	0.00292	1	02/17/2019 19:18	WG1238391
Chloromethane	U		0.00162	0.0146	1	02/17/2019 19:18	WG1238391
2-Chlorotoluene	U		0.00107	0.00292	1	02/17/2019 19:18	WG1238391
4-Chlorotoluene	U		0.00132	0.00584	1	02/17/2019 19:18	WG1238391
1,2-Dibromo-3-Chloropropane	U		0.00596	0.0292	1	02/17/2019 19:18	WG1238391
1,2-Dibromoethane	U		0.000613	0.00292	1	02/17/2019 19:18	WG1238391
Dibromomethane	U		0.00117	0.00584	1	02/17/2019 19:18	WG1238391
1,2-Dichlorobenzene	U		0.00169	0.00584	1	02/17/2019 19:18	WG1238391
1,3-Dichlorobenzene	U		0.00199	0.00584	1	02/17/2019 19:18	WG1238391
1,4-Dichlorobenzene	U		0.00230	0.00584	1	02/17/2019 19:18	WG1238391
Dichlorodifluoromethane	U		0.000955	0.00292	1	02/17/2019 19:18	WG1238391
1,1-Dichloroethane	U		0.000672	0.00292	1	02/17/2019 19:18	WG1238391
1,2-Dichloroethane	U		0.000555	0.00292	1	02/17/2019 19:18	WG1238391
1,1-Dichloroethene	U		0.000584	0.00292	1	02/17/2019 19:18	WG1238391
cis-1,2-Dichloroethene	0.0277		0.000806	0.00292	1	02/17/2019 19:18	WG1238391
trans-1,2-Dichloroethene	U		0.00167	0.00584	1	02/17/2019 19:18	WG1238391
1,2-Dichloropropane	U		0.00148	0.00584	1	02/17/2019 19:18	WG1238391
1,1-Dichloropropene	U		0.000818	0.00292	1	02/17/2019 19:18	WG1238391
1,3-Dichloropropane	U		0.00204	0.00584	1	02/17/2019 19:18	WG1238391
cis-1,3-Dichloropropene	U		0.000792	0.00292	1	02/17/2019 19:18	WG1238391
trans-1,3-Dichloropropene	U		0.00179	0.00584	1	02/17/2019 19:18	WG1238391
trans-1,4-Dichloro-2-butene	U		0.00164	0.00584	1	02/17/2019 19:18	WG1238391
2,2-Dichloropropane	U		0.000926	0.00292	1	02/17/2019 19:18	WG1238391
Di-isopropyl ether	U		0.000409	0.00117	1	02/17/2019 19:18	WG1238391
Ethylbenzene	U		0.000619	0.00292	1	02/17/2019 19:18	WG1238391
Hexachloro-1,3-butadiene	U		0.0148	0.0292	1	02/17/2019 19:18	WG1238391
2-Hexanone	U		0.0117	0.0292	1	02/17/2019 19:18	WG1238391
n-Hexane	U		0.00124	0.00584	1	02/17/2019 19:18	WG1238391
Iodomethane	U		0.00707	0.0146	1	02/17/2019 19:18	WG1238391
Isopropylbenzene	U		0.00101	0.00292	1	02/17/2019 19:18	WG1238391
p-Isopropyltoluene	U		0.00272	0.00584	1	02/17/2019 19:18	WG1238391
2-Butanone (MEK)	U		0.0146	0.0292	1	02/17/2019 19:18	WG1238391
Methylene Chloride	U		0.00776	0.0292	1	02/17/2019 19:18	WG1238391
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0292	1	02/17/2019 19:18	WG1238391





Collected date/time: 02/14/19 00:00

L1070864

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000345	0.00117	1	02/17/2019 19:18	WG1238391
Naphthalene	U		0.00364	0.0146	1	02/17/2019 19:18	WG1238391
n-Propylbenzene	U		0.00138	0.00584	1	02/17/2019 19:18	WG1238391
Styrene	U		0.00319	0.0146	1	02/17/2019 19:18	WG1238391
1,1,1,2-Tetrachloroethane	U		0.000584	0.00292	1	02/17/2019 19:18	WG1238391
1,1,2,2-Tetrachloroethane	U		0.000456	0.00292	1	02/17/2019 19:18	WG1238391
1,1,2-Trichlorotrifluoroethane	U		0.000788	0.00292	1	02/17/2019 19:18	WG1238391
Tetrachloroethene	0.00166	U	0.000818	0.00292	1	02/17/2019 19:18	WG1238391
Toluene	U		0.00146	0.00584	1	02/17/2019 19:18	WG1238391
1,2,3-Trichlorobenzene	U		0.000730	0.00292	1	02/17/2019 19:18	WG1238391
1,2,4-Trichlorobenzene	U		0.00563	0.0146	1	02/17/2019 19:18	WG1238391
1,1,1-Trichloroethane	U		0.000321	0.00292	1	02/17/2019 19:18	WG1238391
1,1,2-Trichloroethane	U		0.00103	0.00292	1	02/17/2019 19:18	WG1238391
Trichloroethene	U		0.000467	0.00117	1	02/21/2019 22:07	WG1240554
Trichlorofluoromethane	U		0.000584	0.00292	1	02/17/2019 19:18	WG1238391
1,2,3-Trichloropropane	U		0.00596	0.0146	1	02/17/2019 19:18	WG1238391
1,2,4-Trimethylbenzene	U		0.00135	0.00584	1	02/17/2019 19:18	WG1238391
1,2,3-Trimethylbenzene	U		0.00134	0.00584	1	02/17/2019 19:18	WG1238391
1,3,5-Trimethylbenzene	U		0.00126	0.00584	1	02/17/2019 19:18	WG1238391
Vinyl acetate	U		0.00411	0.0146	1	02/17/2019 19:18	WG1238391
Vinyl chloride	U		0.000798	0.00292	1	02/17/2019 19:18	WG1238391
Xylenes, Total	U		0.00558	0.00759	1	02/17/2019 19:18	WG1238391
(S) Toluene-d8	98.3			75.0-131		02/17/2019 19:18	WG1238391
(S) Toluene-d8	98.6			75.0-131		02/21/2019 22:07	WG1240554
(S) 4-Bromofluorobenzene	102			67.0-138		02/17/2019 19:18	WG1238391
(S) 4-Bromofluorobenzene	93.9			67.0-138		02/21/2019 22:07	WG1240554
(S) 1,2-Dichloroethane-d4	101			70.0-130		02/17/2019 19:18	WG1238391
(S) 1,2-Dichloroethane-d4	96.9			70.0-130		02/21/2019 22:07	WG1240554

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	84.9		1	02/19/2019 13:20	WG1239021

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0161	0.0295	1	02/21/2019 22:26	WG1240554
Acrylonitrile	U		0.00224	0.0147	1	02/17/2019 19:38	WG1238391
Benzene	U		0.000471	0.00118	1	02/17/2019 19:38	WG1238391
Bromobenzene	U		0.00124	0.0147	1	02/17/2019 19:38	WG1238391
Bromodichloromethane	U		0.000928	0.00295	1	02/17/2019 19:38	WG1238391
Bromochloromethane	U		0.00133	0.00589	1	02/17/2019 19:38	WG1238391
Bromoform	U		0.00705	0.0295	1	02/17/2019 19:38	WG1238391
Bromomethane	U		0.00436	0.0147	1	02/17/2019 19:38	WG1238391
n-Butylbenzene	U		0.00452	0.0147	1	02/17/2019 19:38	WG1238391
sec-Butylbenzene	U		0.00298	0.0147	1	02/17/2019 19:38	WG1238391
tert-Butylbenzene	U		0.00183	0.00589	1	02/17/2019 19:38	WG1238391
Carbon disulfide	U		0.00478	0.0147	1	02/17/2019 19:38	WG1238391
Carbon tetrachloride	U		0.00127	0.00589	1	02/17/2019 19:38	WG1238391
Chlorobenzene	U		0.000675	0.00295	1	02/17/2019 19:38	WG1238391
Chlorodibromomethane	U		0.000530	0.00295	1	02/17/2019 19:38	WG1238391
Chloroethane	U		0.00127	0.00589	1	02/17/2019 19:38	WG1238391
Chloroform	U		0.000489	0.00295	1	02/17/2019 19:38	WG1238391
Chloromethane	U		0.00164	0.0147	1	02/17/2019 19:38	WG1238391
2-Chlorotoluene	U		0.00108	0.00295	1	02/17/2019 19:38	WG1238391
4-Chlorotoluene	U		0.00133	0.00589	1	02/17/2019 19:38	WG1238391
1,2-Dibromo-3-Chloropropane	U		0.00601	0.0295	1	02/17/2019 19:38	WG1238391
1,2-Dibromoethane	U		0.000619	0.00295	1	02/17/2019 19:38	WG1238391
Dibromomethane	U		0.00118	0.00589	1	02/17/2019 19:38	WG1238391
1,2-Dichlorobenzene	U		0.00171	0.00589	1	02/17/2019 19:38	WG1238391
1,3-Dichlorobenzene	U		0.00200	0.00589	1	02/17/2019 19:38	WG1238391
1,4-Dichlorobenzene	U		0.00232	0.00589	1	02/17/2019 19:38	WG1238391
Dichlorodifluoromethane	U		0.000964	0.00295	1	02/17/2019 19:38	WG1238391
1,1-Dichloroethane	U		0.000677	0.00295	1	02/17/2019 19:38	WG1238391
1,2-Dichloroethane	U		0.000560	0.00295	1	02/17/2019 19:38	WG1238391
1,1-Dichloroethene	U		0.000589	0.00295	1	02/17/2019 19:38	WG1238391
cis-1,2-Dichloroethene	0.156		0.000813	0.00295	1	02/17/2019 19:38	WG1238391
trans-1,2-Dichloroethene	0.00294	J	0.00168	0.00589	1	02/17/2019 19:38	WG1238391
1,2-Dichloropropane	U		0.00150	0.00589	1	02/17/2019 19:38	WG1238391
1,1-Dichloropropene	U		0.000825	0.00295	1	02/17/2019 19:38	WG1238391
1,3-Dichloropropane	U		0.00206	0.00589	1	02/17/2019 19:38	WG1238391
cis-1,3-Dichloropropene	U		0.000799	0.00295	1	02/17/2019 19:38	WG1238391
trans-1,3-Dichloropropene	U		0.00180	0.00589	1	02/17/2019 19:38	WG1238391
trans-1,4-Dichloro-2-butene	U		0.00165	0.00589	1	02/17/2019 19:38	WG1238391
2,2-Dichloropropane	U		0.000934	0.00295	1	02/17/2019 19:38	WG1238391
Di-isopropyl ether	U		0.000412	0.00118	1	02/17/2019 19:38	WG1238391
Ethylbenzene	U		0.000624	0.00295	1	02/17/2019 19:38	WG1238391
Hexachloro-1,3-butadiene	U		0.0150	0.0295	1	02/17/2019 19:38	WG1238391
2-Hexanone	U		0.0118	0.0295	1	02/17/2019 19:38	WG1238391
n-Hexane	U		0.00125	0.00589	1	02/17/2019 19:38	WG1238391
Iodomethane	U		0.00713	0.0147	1	02/17/2019 19:38	WG1238391
Isopropylbenzene	U		0.00102	0.00295	1	02/17/2019 19:38	WG1238391
p-Isopropyltoluene	U		0.00275	0.00589	1	02/17/2019 19:38	WG1238391
2-Butanone (MEK)	0.0222	J	0.0147	0.0295	1	02/17/2019 19:38	WG1238391
Methylene Chloride	U		0.00782	0.0295	1	02/17/2019 19:38	WG1238391
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0295	1	02/17/2019 19:38	WG1238391

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/14/19 00:00

L1070864

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000348	0.00118	1	02/17/2019 19:38	WG1238391
Naphthalene	U		0.00368	0.0147	1	02/17/2019 19:38	WG1238391
n-Propylbenzene	U		0.00139	0.00589	1	02/17/2019 19:38	WG1238391
Styrene	U		0.00322	0.0147	1	02/17/2019 19:38	WG1238391
1,1,1,2-Tetrachloroethane	U		0.000589	0.00295	1	02/17/2019 19:38	WG1238391
1,1,2,2-Tetrachloroethane	U		0.000460	0.00295	1	02/17/2019 19:38	WG1238391
1,1,2-Trichlorotrifluoroethane	U		0.000795	0.00295	1	02/17/2019 19:38	WG1238391
Tetrachloroethene	0.0608		0.000825	0.00295	1	02/17/2019 19:38	WG1238391
Toluene	U		0.00147	0.00589	1	02/17/2019 19:38	WG1238391
1,2,3-Trichlorobenzene	U		0.000736	0.00295	1	02/17/2019 19:38	WG1238391
1,2,4-Trichlorobenzene	U		0.00568	0.0147	1	02/17/2019 19:38	WG1238391
1,1,1-Trichloroethane	U		0.000324	0.00295	1	02/17/2019 19:38	WG1238391
1,1,2-Trichloroethane	U		0.00104	0.00295	1	02/17/2019 19:38	WG1238391
Trichloroethene	0.00455		0.000471	0.00118	1	02/21/2019 22:26	WG1240554
Trichlorofluoromethane	U		0.000589	0.00295	1	02/17/2019 19:38	WG1238391
1,2,3-Trichloropropane	U		0.00601	0.0147	1	02/17/2019 19:38	WG1238391
1,2,4-Trimethylbenzene	U		0.00137	0.00589	1	02/17/2019 19:38	WG1238391
1,2,3-Trimethylbenzene	U		0.00135	0.00589	1	02/17/2019 19:38	WG1238391
1,3,5-Trimethylbenzene	U		0.00127	0.00589	1	02/17/2019 19:38	WG1238391
Vinyl acetate	U		0.00415	0.0147	1	02/17/2019 19:38	WG1238391
Vinyl chloride	0.00858		0.000805	0.00295	1	02/17/2019 19:38	WG1238391
Xylenes, Total	U		0.00563	0.00766	1	02/17/2019 19:38	WG1238391
(S) Toluene-d8	99.7			75.0-131		02/17/2019 19:38	WG1238391
(S) Toluene-d8	100			75.0-131		02/21/2019 22:26	WG1240554
(S) 4-Bromofluorobenzene	102			67.0-138		02/17/2019 19:38	WG1238391
(S) 4-Bromofluorobenzene	93.4			67.0-138		02/21/2019 22:26	WG1240554
(S) 1,2-Dichloroethane-d4	101			70.0-130		02/17/2019 19:38	WG1238391
(S) 1,2-Dichloroethane-d4	96.1			70.0-130		02/21/2019 22:26	WG1240554

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	88.0		1	02/19/2019 13:20	WG1239021

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0156	0.0284	1	02/21/2019 22:46	WG1240554
Acrylonitrile	U		0.00216	0.0142	1	02/17/2019 19:58	WG1238391
Benzene	0.000600	J	0.000454	0.00114	1	02/17/2019 19:58	WG1238391
Bromobenzene	U		0.00119	0.0142	1	02/17/2019 19:58	WG1238391
Bromodichloromethane	U		0.000895	0.00284	1	02/17/2019 19:58	WG1238391
Bromochloromethane	U		0.00128	0.00568	1	02/17/2019 19:58	WG1238391
Bromoform	U		0.00679	0.0284	1	02/17/2019 19:58	WG1238391
Bromomethane	U		0.00420	0.0142	1	02/17/2019 19:58	WG1238391
n-Butylbenzene	U		0.00436	0.0142	1	02/17/2019 19:58	WG1238391
sec-Butylbenzene	U		0.00287	0.0142	1	02/17/2019 19:58	WG1238391
tert-Butylbenzene	U		0.00176	0.00568	1	02/17/2019 19:58	WG1238391
Carbon disulfide	U		0.00461	0.0142	1	02/17/2019 19:58	WG1238391
Carbon tetrachloride	U		0.00123	0.00568	1	02/17/2019 19:58	WG1238391
Chlorobenzene	U		0.000651	0.00284	1	02/17/2019 19:58	WG1238391
Chlorodibromomethane	U		0.000511	0.00284	1	02/17/2019 19:58	WG1238391
Chloroethane	U		0.00123	0.00568	1	02/17/2019 19:58	WG1238391
Chloroform	U		0.000471	0.00284	1	02/17/2019 19:58	WG1238391
Chloromethane	U		0.00158	0.0142	1	02/17/2019 19:58	WG1238391
2-Chlorotoluene	U		0.00105	0.00284	1	02/17/2019 19:58	WG1238391
4-Chlorotoluene	U		0.00128	0.00568	1	02/17/2019 19:58	WG1238391
1,2-Dibromo-3-Chloropropane	U		0.00579	0.0284	1	02/17/2019 19:58	WG1238391
1,2-Dibromoethane	U		0.000596	0.00284	1	02/17/2019 19:58	WG1238391
Dibromomethane	U		0.00114	0.00568	1	02/17/2019 19:58	WG1238391
1,2-Dichlorobenzene	U		0.00165	0.00568	1	02/17/2019 19:58	WG1238391
1,3-Dichlorobenzene	U		0.00193	0.00568	1	02/17/2019 19:58	WG1238391
1,4-Dichlorobenzene	U		0.00224	0.00568	1	02/17/2019 19:58	WG1238391
Dichlorodifluoromethane	U		0.000929	0.00284	1	02/17/2019 19:58	WG1238391
1,1-Dichloroethane	U		0.000653	0.00284	1	02/17/2019 19:58	WG1238391
1,2-Dichloroethane	U		0.000540	0.00284	1	02/17/2019 19:58	WG1238391
1,1-Dichloroethene	U		0.000568	0.00284	1	02/17/2019 19:58	WG1238391
cis-1,2-Dichloroethene	0.257		0.000784	0.00284	1	02/17/2019 19:58	WG1238391
trans-1,2-Dichloroethene	0.00280	J	0.00162	0.00568	1	02/17/2019 19:58	WG1238391
1,2-Dichloropropane	U		0.00144	0.00568	1	02/17/2019 19:58	WG1238391
1,1-Dichloropropene	U		0.000795	0.00284	1	02/17/2019 19:58	WG1238391
1,3-Dichloropropane	U		0.00199	0.00568	1	02/17/2019 19:58	WG1238391
cis-1,3-Dichloropropene	U		0.000770	0.00284	1	02/17/2019 19:58	WG1238391
trans-1,3-Dichloropropene	U		0.00174	0.00568	1	02/17/2019 19:58	WG1238391
trans-1,4-Dichloro-2-butene	U		0.00159	0.00568	1	02/17/2019 19:58	WG1238391
2,2-Dichloropropane	U		0.000901	0.00284	1	02/17/2019 19:58	WG1238391
Di-isopropyl ether	U		0.000398	0.00114	1	02/17/2019 19:58	WG1238391
Ethylbenzene	U		0.000602	0.00284	1	02/17/2019 19:58	WG1238391
Hexachloro-1,3-butadiene	U		0.0144	0.0284	1	02/17/2019 19:58	WG1238391
2-Hexanone	U		0.0114	0.0284	1	02/17/2019 19:58	WG1238391
n-Hexane	U		0.00120	0.00568	1	02/17/2019 19:58	WG1238391
Iodomethane	U		0.00687	0.0142	1	02/17/2019 19:58	WG1238391
Isopropylbenzene	U		0.000980	0.00284	1	02/17/2019 19:58	WG1238391
p-Isopropyltoluene	U		0.00265	0.00568	1	02/17/2019 19:58	WG1238391
2-Butanone (MEK)	0.0316		0.0142	0.0284	1	02/17/2019 19:58	WG1238391
Methylene Chloride	U		0.00754	0.0284	1	02/17/2019 19:58	WG1238391
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0284	1	02/17/2019 19:58	WG1238391

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/14/19 00:00

L1070864

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000335	0.00114	1	02/17/2019 19:58	WG1238391
Naphthalene	U		0.00354	0.0142	1	02/17/2019 19:58	WG1238391
n-Propylbenzene	U		0.00134	0.00568	1	02/17/2019 19:58	WG1238391
Styrene	U		0.00310	0.0142	1	02/17/2019 19:58	WG1238391
1,1,1,2-Tetrachloroethane	U		0.000568	0.00284	1	02/17/2019 19:58	WG1238391
1,1,2,2-Tetrachloroethane	U		0.000443	0.00284	1	02/17/2019 19:58	WG1238391
1,1,2-Trichlorotrifluoroethane	U		0.000767	0.00284	1	02/17/2019 19:58	WG1238391
Tetrachloroethene	0.0382		0.000795	0.00284	1	02/17/2019 19:58	WG1238391
Toluene	U		0.00142	0.00568	1	02/17/2019 19:58	WG1238391
1,2,3-Trichlorobenzene	U		0.000710	0.00284	1	02/17/2019 19:58	WG1238391
1,2,4-Trichlorobenzene	U		0.00548	0.0142	1	02/17/2019 19:58	WG1238391
1,1,1-Trichloroethane	U		0.000312	0.00284	1	02/17/2019 19:58	WG1238391
1,1,2-Trichloroethane	U		0.00100	0.00284	1	02/17/2019 19:58	WG1238391
Trichloroethene	0.00548		0.000454	0.00114	1	02/21/2019 22:46	WG1240554
Trichlorofluoromethane	U		0.000568	0.00284	1	02/17/2019 19:58	WG1238391
1,2,3-Trichloropropane	U		0.00579	0.0142	1	02/17/2019 19:58	WG1238391
1,2,4-Trimethylbenzene	U		0.00132	0.00568	1	02/17/2019 19:58	WG1238391
1,2,3-Trimethylbenzene	U		0.00131	0.00568	1	02/17/2019 19:58	WG1238391
1,3,5-Trimethylbenzene	U		0.00123	0.00568	1	02/17/2019 19:58	WG1238391
Vinyl acetate	U		0.00400	0.0142	1	02/17/2019 19:58	WG1238391
Vinyl chloride	0.0169		0.000776	0.00284	1	02/17/2019 19:58	WG1238391
Xylenes, Total	U		0.00543	0.00738	1	02/17/2019 19:58	WG1238391
(S) Toluene-d8	97.4			75.0-131		02/17/2019 19:58	WG1238391
(S) Toluene-d8	99.5			75.0-131		02/21/2019 22:46	WG1240554
(S) 4-Bromofluorobenzene	102			67.0-138		02/17/2019 19:58	WG1238391
(S) 4-Bromofluorobenzene	92.8			67.0-138		02/21/2019 22:46	WG1240554
(S) 1,2-Dichloroethane-d4	103			70.0-130		02/17/2019 19:58	WG1238391
(S) 1,2-Dichloroethane-d4	96.4			70.0-130		02/21/2019 22:46	WG1240554

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/14/19 00:00

L1070864

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.8		1	02/19/2019 13:20	WG1239021

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0151	0.0275	1	02/21/2019 23:05	WG1240554
Acrylonitrile	U		0.00209	0.0138	1	02/17/2019 20:18	WG1238391
Benzene	0.000735	J	0.000441	0.00110	1	02/17/2019 20:18	WG1238391
Bromobenzene	U		0.00116	0.0138	1	02/17/2019 20:18	WG1238391
Bromodichloromethane	U		0.000868	0.00275	1	02/17/2019 20:18	WG1238391
Bromochloromethane	U		0.00124	0.00551	1	02/17/2019 20:18	WG1238391
Bromoform	U		0.00659	0.0275	1	02/17/2019 20:18	WG1238391
Bromomethane	U		0.00408	0.0138	1	02/17/2019 20:18	WG1238391
n-Butylbenzene	U		0.00423	0.0138	1	02/17/2019 20:18	WG1238391
sec-Butylbenzene	U		0.00279	0.0138	1	02/17/2019 20:18	WG1238391
tert-Butylbenzene	U		0.00171	0.00551	1	02/17/2019 20:18	WG1238391
Carbon disulfide	U		0.00447	0.0138	1	02/17/2019 20:18	WG1238391
Carbon tetrachloride	U		0.00119	0.00551	1	02/17/2019 20:18	WG1238391
Chlorobenzene	U		0.000631	0.00275	1	02/17/2019 20:18	WG1238391
Chlorodibromomethane	U		0.000496	0.00275	1	02/17/2019 20:18	WG1238391
Chloroethane	U		0.00119	0.00551	1	02/17/2019 20:18	WG1238391
Chloroform	U		0.000457	0.00275	1	02/17/2019 20:18	WG1238391
Chloromethane	U		0.00153	0.0138	1	02/17/2019 20:18	WG1238391
2-Chlorotoluene	U		0.00101	0.00275	1	02/17/2019 20:18	WG1238391
4-Chlorotoluene	U		0.00124	0.00551	1	02/17/2019 20:18	WG1238391
1,2-Dibromo-3-Chloropropane	U		0.00562	0.0275	1	02/17/2019 20:18	WG1238391
1,2-Dibromoethane	U		0.000578	0.00275	1	02/17/2019 20:18	WG1238391
Dibromomethane	U		0.00110	0.00551	1	02/17/2019 20:18	WG1238391
1,2-Dichlorobenzene	U		0.00160	0.00551	1	02/17/2019 20:18	WG1238391
1,3-Dichlorobenzene	U		0.00187	0.00551	1	02/17/2019 20:18	WG1238391
1,4-Dichlorobenzene	U		0.00217	0.00551	1	02/17/2019 20:18	WG1238391
Dichlorodifluoromethane	U		0.000901	0.00275	1	02/17/2019 20:18	WG1238391
1,1-Dichloroethane	U		0.000633	0.00275	1	02/17/2019 20:18	WG1238391
1,2-Dichloroethane	U		0.000523	0.00275	1	02/17/2019 20:18	WG1238391
1,1-Dichloroethene	0.00395		0.000551	0.00275	1	02/17/2019 20:18	WG1238391
cis-1,2-Dichloroethene	0.924		0.000760	0.00275	1	02/17/2019 20:18	WG1238391
trans-1,2-Dichloroethene	0.0482		0.00158	0.00551	1	02/17/2019 20:18	WG1238391
1,2-Dichloropropane	U		0.00140	0.00551	1	02/17/2019 20:18	WG1238391
1,1-Dichloropropene	U		0.000771	0.00275	1	02/17/2019 20:18	WG1238391
1,3-Dichloropropane	U		0.00193	0.00551	1	02/17/2019 20:18	WG1238391
cis-1,3-Dichloropropene	U		0.000747	0.00275	1	02/17/2019 20:18	WG1238391
trans-1,3-Dichloropropene	U		0.00169	0.00551	1	02/17/2019 20:18	WG1238391
trans-1,4-Dichloro-2-butene	U		0.00154	0.00551	1	02/17/2019 20:18	WG1238391
2,2-Dichloropropane	U		0.000874	0.00275	1	02/17/2019 20:18	WG1238391
Di-isopropyl ether	U		0.000386	0.00110	1	02/17/2019 20:18	WG1238391
Ethylbenzene	U		0.000584	0.00275	1	02/17/2019 20:18	WG1238391
Hexachloro-1,3-butadiene	U		0.0140	0.0275	1	02/17/2019 20:18	WG1238391
2-Hexanone	U		0.0110	0.0275	1	02/17/2019 20:18	WG1238391
n-Hexane	U		0.00117	0.00551	1	02/17/2019 20:18	WG1238391
Iodomethane	U		0.00666	0.0138	1	02/17/2019 20:18	WG1238391
Isopropylbenzene	U		0.000951	0.00275	1	02/17/2019 20:18	WG1238391
p-Isopropyltoluene	U		0.00257	0.00551	1	02/17/2019 20:18	WG1238391
2-Butanone (MEK)	U		0.0138	0.0275	1	02/17/2019 20:18	WG1238391
Methylene Chloride	U		0.00731	0.0275	1	02/17/2019 20:18	WG1238391
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0275	1	02/17/2019 20:18	WG1238391

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/14/19 00:00

L1070864

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000325	0.00110	1	02/17/2019 20:18	WG1238391
Naphthalene	U		0.00344	0.0138	1	02/17/2019 20:18	WG1238391
n-Propylbenzene	U		0.00130	0.00551	1	02/17/2019 20:18	WG1238391
Styrene	U		0.00301	0.0138	1	02/17/2019 20:18	WG1238391
1,1,1,2-Tetrachloroethane	U		0.000551	0.00275	1	02/17/2019 20:18	WG1238391
1,1,2,2-Tetrachloroethane	U		0.000430	0.00275	1	02/17/2019 20:18	WG1238391
1,1,2-Trichlorotrifluoroethane	U		0.000744	0.00275	1	02/17/2019 20:18	WG1238391
Tetrachloroethene	0.200		0.000771	0.00275	1	02/17/2019 20:18	WG1238391
Toluene	0.00155	U	0.00138	0.00551	1	02/17/2019 20:18	WG1238391
1,2,3-Trichlorobenzene	U		0.000689	0.00275	1	02/17/2019 20:18	WG1238391
1,2,4-Trichlorobenzene	U		0.00531	0.0138	1	02/17/2019 20:18	WG1238391
1,1,1-Trichloroethane	U		0.000303	0.00275	1	02/17/2019 20:18	WG1238391
1,1,2-Trichloroethane	U		0.000973	0.00275	1	02/17/2019 20:18	WG1238391
Trichloroethene	0.000844	U	0.000441	0.00110	1	02/21/2019 23:05	WG1240554
Trichlorofluoromethane	U		0.000551	0.00275	1	02/17/2019 20:18	WG1238391
1,2,3-Trichloropropane	U		0.00562	0.0138	1	02/17/2019 20:18	WG1238391
1,2,4-Trimethylbenzene	U		0.00128	0.00551	1	02/17/2019 20:18	WG1238391
1,2,3-Trimethylbenzene	U		0.00127	0.00551	1	02/17/2019 20:18	WG1238391
1,3,5-Trimethylbenzene	U		0.00119	0.00551	1	02/17/2019 20:18	WG1238391
Vinyl acetate	U		0.00388	0.0138	1	02/17/2019 20:18	WG1238391
Vinyl chloride	0.136		0.000752	0.00275	1	02/17/2019 20:18	WG1238391
Xylenes, Total	U		0.00527	0.00716	1	02/17/2019 20:18	WG1238391
(S) Toluene-d8	101			75.0-131		02/17/2019 20:18	WG1238391
(S) Toluene-d8	101			75.0-131		02/21/2019 23:05	WG1240554
(S) 4-Bromofluorobenzene	104			67.0-138		02/17/2019 20:18	WG1238391
(S) 4-Bromofluorobenzene	90.3			67.0-138		02/21/2019 23:05	WG1240554
(S) 1,2-Dichloroethane-d4	104			70.0-130		02/17/2019 20:18	WG1238391
(S) 1,2-Dichloroethane-d4	96.8			70.0-130		02/21/2019 23:05	WG1240554

1 Cp

2 Tc

3 Ss

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6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/14/19 00:00

L1070864

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.7		1	02/19/2019 13:20	WG1239021

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0151	0.0276	1	02/21/2019 23:25	WG1240554
Acrylonitrile	U		0.00210	0.0138	1	02/17/2019 20:38	WG1238391
Benzene	0.000878	J	0.000441	0.00110	1	02/17/2019 20:38	WG1238391
Bromobenzene	U		0.00116	0.0138	1	02/17/2019 20:38	WG1238391
Bromodichloromethane	U		0.000869	0.00276	1	02/17/2019 20:38	WG1238391
Bromochloromethane	U		0.00125	0.00551	1	02/17/2019 20:38	WG1238391
Bromoform	U		0.00660	0.0276	1	02/17/2019 20:38	WG1238391
Bromomethane	U		0.00408	0.0138	1	02/17/2019 20:38	WG1238391
n-Butylbenzene	U		0.00423	0.0138	1	02/17/2019 20:38	WG1238391
sec-Butylbenzene	U		0.00279	0.0138	1	02/17/2019 20:38	WG1238391
tert-Butylbenzene	U		0.00171	0.00551	1	02/17/2019 20:38	WG1238391
Carbon disulfide	U		0.00448	0.0138	1	02/17/2019 20:38	WG1238391
Carbon tetrachloride	U		0.00119	0.00551	1	02/17/2019 20:38	WG1238391
Chlorobenzene	U		0.000632	0.00276	1	02/17/2019 20:38	WG1238391
Chlorodibromomethane	U		0.000496	0.00276	1	02/17/2019 20:38	WG1238391
Chloroethane	U		0.00119	0.00551	1	02/17/2019 20:38	WG1238391
Chloroform	U		0.000458	0.00276	1	02/17/2019 20:38	WG1238391
Chloromethane	U		0.00153	0.0138	1	02/17/2019 20:38	WG1238391
2-Chlorotoluene	U		0.00101	0.00276	1	02/17/2019 20:38	WG1238391
4-Chlorotoluene	U		0.00125	0.00551	1	02/17/2019 20:38	WG1238391
1,2-Dibromo-3-Chloropropane	U		0.00562	0.0276	1	02/17/2019 20:38	WG1238391
1,2-Dibromoethane	U		0.000579	0.00276	1	02/17/2019 20:38	WG1238391
Dibromomethane	U		0.00110	0.00551	1	02/17/2019 20:38	WG1238391
1,2-Dichlorobenzene	U		0.00160	0.00551	1	02/17/2019 20:38	WG1238391
1,3-Dichlorobenzene	U		0.00187	0.00551	1	02/17/2019 20:38	WG1238391
1,4-Dichlorobenzene	U		0.00217	0.00551	1	02/17/2019 20:38	WG1238391
Dichlorodifluoromethane	U		0.000902	0.00276	1	02/17/2019 20:38	WG1238391
1,1-Dichloroethane	U		0.000634	0.00276	1	02/17/2019 20:38	WG1238391
1,2-Dichloroethane	U		0.000524	0.00276	1	02/17/2019 20:38	WG1238391
1,1-Dichloroethene	0.00336		0.000551	0.00276	1	02/17/2019 20:38	WG1238391
cis-1,2-Dichloroethene	1.80		0.000761	0.00276	1	02/17/2019 20:38	WG1238391
trans-1,2-Dichloroethene	0.0103		0.00158	0.00551	1	02/17/2019 20:38	WG1238391
1,2-Dichloropropane	U		0.00140	0.00551	1	02/17/2019 20:38	WG1238391
1,1-Dichloropropene	U		0.000772	0.00276	1	02/17/2019 20:38	WG1238391
1,3-Dichloropropane	U		0.00193	0.00551	1	02/17/2019 20:38	WG1238391
cis-1,3-Dichloropropene	U		0.000748	0.00276	1	02/17/2019 20:38	WG1238391
trans-1,3-Dichloropropene	U		0.00169	0.00551	1	02/17/2019 20:38	WG1238391
trans-1,4-Dichloro-2-butene	U		0.00154	0.00551	1	02/17/2019 20:38	WG1238391
2,2-Dichloropropane	U		0.000875	0.00276	1	02/17/2019 20:38	WG1238391
Di-isopropyl ether	U		0.000386	0.00110	1	02/17/2019 20:38	WG1238391
Ethylbenzene	U		0.000585	0.00276	1	02/17/2019 20:38	WG1238391
Hexachloro-1,3-butadiene	U		0.0140	0.0276	1	02/17/2019 20:38	WG1238391
2-Hexanone	U		0.0110	0.0276	1	02/17/2019 20:38	WG1238391
n-Hexane	U		0.00117	0.00551	1	02/17/2019 20:38	WG1238391
Iodomethane	U		0.00667	0.0138	1	02/17/2019 20:38	WG1238391
Isopropylbenzene	U		0.000952	0.00276	1	02/17/2019 20:38	WG1238391
p-Isopropyltoluene	U		0.00257	0.00551	1	02/17/2019 20:38	WG1238391
2-Butanone (MEK)	U		0.0138	0.0276	1	02/17/2019 20:38	WG1238391
Methylene Chloride	U		0.00732	0.0276	1	02/17/2019 20:38	WG1238391
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0276	1	02/17/2019 20:38	WG1238391

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/14/19 00:00

L1070864

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000325	0.00110	1	02/17/2019 20:38	WG1238391
Naphthalene	U		0.00344	0.0138	1	02/17/2019 20:38	WG1238391
n-Propylbenzene	U		0.00130	0.00551	1	02/17/2019 20:38	WG1238391
Styrene	U		0.00301	0.0138	1	02/17/2019 20:38	WG1238391
1,1,1,2-Tetrachloroethane	U		0.000551	0.00276	1	02/17/2019 20:38	WG1238391
1,1,2,2-Tetrachloroethane	U		0.000430	0.00276	1	02/17/2019 20:38	WG1238391
1,1,2-Trichlorotrifluoroethane	U		0.000744	0.00276	1	02/17/2019 20:38	WG1238391
Tetrachloroethene	0.483		0.000772	0.00276	1	02/17/2019 20:38	WG1238391
Toluene	0.00144	J	0.00138	0.00551	1	02/17/2019 20:38	WG1238391
1,2,3-Trichlorobenzene	U		0.000689	0.00276	1	02/17/2019 20:38	WG1238391
1,2,4-Trichlorobenzene	U		0.00532	0.0138	1	02/17/2019 20:38	WG1238391
1,1,1-Trichloroethane	U		0.000303	0.00276	1	02/17/2019 20:38	WG1238391
1,1,2-Trichloroethane	U		0.000974	0.00276	1	02/17/2019 20:38	WG1238391
Trichloroethene	0.00165		0.000441	0.00110	1	02/21/2019 23:25	WG1240554
Trichlorofluoromethane	U		0.000551	0.00276	1	02/17/2019 20:38	WG1238391
1,2,3-Trichloropropane	U		0.00562	0.0138	1	02/17/2019 20:38	WG1238391
1,2,4-Trimethylbenzene	U		0.00128	0.00551	1	02/17/2019 20:38	WG1238391
1,2,3-Trimethylbenzene	U		0.00127	0.00551	1	02/17/2019 20:38	WG1238391
1,3,5-Trimethylbenzene	U		0.00119	0.00551	1	02/17/2019 20:38	WG1238391
Vinyl acetate	U		0.00388	0.0138	1	02/17/2019 20:38	WG1238391
Vinyl chloride	0.219		0.000753	0.00276	1	02/17/2019 20:38	WG1238391
Xylenes, Total	U		0.00527	0.00717	1	02/17/2019 20:38	WG1238391
(S) Toluene-d8	98.2			75.0-131		02/17/2019 20:38	WG1238391
(S) Toluene-d8	97.1			75.0-131		02/21/2019 23:25	WG1240554
(S) 4-Bromofluorobenzene	102			67.0-138		02/17/2019 20:38	WG1238391
(S) 4-Bromofluorobenzene	95.4			67.0-138		02/21/2019 23:25	WG1240554
(S) 1,2-Dichloroethane-d4	104			70.0-130		02/17/2019 20:38	WG1238391
(S) 1,2-Dichloroethane-d4	96.2			70.0-130		02/21/2019 23:25	WG1240554

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	93.0		1	02/19/2019 13:20	WG1239021

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0589	0.108	4	02/22/2019 00:05	WG1240554
Acrylonitrile	U		0.00204	0.0134	1	02/17/2019 20:58	WG1238391
Benzene	0.000824	J	0.000430	0.00108	1	02/17/2019 20:58	WG1238391
Bromobenzene	U		0.00113	0.0134	1	02/17/2019 20:58	WG1238391
Bromodichloromethane	U		0.000847	0.00269	1	02/17/2019 20:58	WG1238391
Bromochloromethane	U		0.00122	0.00538	1	02/17/2019 20:58	WG1238391
Bromoform	U		0.00643	0.0269	1	02/17/2019 20:58	WG1238391
Bromomethane	U		0.00398	0.0134	1	02/17/2019 20:58	WG1238391
n-Butylbenzene	U		0.00413	0.0134	1	02/17/2019 20:58	WG1238391
sec-Butylbenzene	U		0.00272	0.0134	1	02/17/2019 20:58	WG1238391
tert-Butylbenzene	U		0.00167	0.00538	1	02/17/2019 20:58	WG1238391
Carbon disulfide	U		0.00437	0.0134	1	02/17/2019 20:58	WG1238391
Carbon tetrachloride	U		0.00116	0.00538	1	02/17/2019 20:58	WG1238391
Chlorobenzene	U		0.000616	0.00269	1	02/17/2019 20:58	WG1238391
Chlorodibromomethane	U		0.000484	0.00269	1	02/17/2019 20:58	WG1238391
Chloroethane	U		0.00116	0.00538	1	02/17/2019 20:58	WG1238391
Chloroform	U		0.000446	0.00269	1	02/17/2019 20:58	WG1238391
Chloromethane	U		0.00149	0.0134	1	02/17/2019 20:58	WG1238391
2-Chlorotoluene	U		0.000989	0.00269	1	02/17/2019 20:58	WG1238391
4-Chlorotoluene	U		0.00122	0.00538	1	02/17/2019 20:58	WG1238391
1,2-Dibromo-3-Chloropropane	U		0.00548	0.0269	1	02/17/2019 20:58	WG1238391
1,2-Dibromoethane	U		0.000565	0.00269	1	02/17/2019 20:58	WG1238391
Dibromomethane	U		0.00108	0.00538	1	02/17/2019 20:58	WG1238391
1,2-Dichlorobenzene	U		0.00156	0.00538	1	02/17/2019 20:58	WG1238391
1,3-Dichlorobenzene	U		0.00183	0.00538	1	02/17/2019 20:58	WG1238391
1,4-Dichlorobenzene	U		0.00212	0.00538	1	02/17/2019 20:58	WG1238391
Dichlorodifluoromethane	U		0.000880	0.00269	1	02/17/2019 20:58	WG1238391
1,1-Dichloroethane	U		0.000618	0.00269	1	02/17/2019 20:58	WG1238391
1,2-Dichloroethane	U		0.000511	0.00269	1	02/17/2019 20:58	WG1238391
1,1-Dichloroethene	U		0.000538	0.00269	1	02/17/2019 20:58	WG1238391
cis-1,2-Dichloroethene	0.712		0.000742	0.00269	1	02/17/2019 20:58	WG1238391
trans-1,2-Dichloroethene	0.00663		0.00154	0.00538	1	02/17/2019 20:58	WG1238391
1,2-Dichloropropane	U		0.00137	0.00538	1	02/17/2019 20:58	WG1238391
1,1-Dichloropropene	U		0.000753	0.00269	1	02/17/2019 20:58	WG1238391
1,3-Dichloropropane	U		0.00188	0.00538	1	02/17/2019 20:58	WG1238391
cis-1,3-Dichloropropene	U		0.000729	0.00269	1	02/17/2019 20:58	WG1238391
trans-1,3-Dichloropropene	U		0.00165	0.00538	1	02/17/2019 20:58	WG1238391
trans-1,4-Dichloro-2-butene	U		0.00151	0.00538	1	02/17/2019 20:58	WG1238391
2,2-Dichloropropane	U		0.000853	0.00269	1	02/17/2019 20:58	WG1238391
Di-isopropyl ether	U		0.000376	0.00108	1	02/17/2019 20:58	WG1238391
Ethylbenzene	U		0.000570	0.00269	1	02/17/2019 20:58	WG1238391
Hexachloro-1,3-butadiene	U		0.0137	0.0269	1	02/17/2019 20:58	WG1238391
2-Hexanone	U		0.0108	0.0269	1	02/17/2019 20:58	WG1238391
n-Hexane	U		0.00114	0.00538	1	02/17/2019 20:58	WG1238391
Iodomethane	U		0.00651	0.0134	1	02/17/2019 20:58	WG1238391
Isopropylbenzene	U		0.000928	0.00269	1	02/17/2019 20:58	WG1238391
p-Isopropyltoluene	U		0.00251	0.00538	1	02/17/2019 20:58	WG1238391
2-Butanone (MEK)	U		0.0134	0.0269	1	02/17/2019 20:58	WG1238391
Methylene Chloride	U		0.00714	0.0269	1	02/17/2019 20:58	WG1238391
4-Methyl-2-pentanone (MIBK)	U		0.0108	0.0269	1	02/17/2019 20:58	WG1238391

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/14/19 00:00

L1070864

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000317	0.00108	1	02/17/2019 20:58	WG1238391
Naphthalene	U		0.00336	0.0134	1	02/17/2019 20:58	WG1238391
n-Propylbenzene	U		0.00127	0.00538	1	02/17/2019 20:58	WG1238391
Styrene	U		0.00294	0.0134	1	02/17/2019 20:58	WG1238391
1,1,1,2-Tetrachloroethane	U		0.000538	0.00269	1	02/17/2019 20:58	WG1238391
1,1,2,2-Tetrachloroethane	U		0.000419	0.00269	1	02/17/2019 20:58	WG1238391
1,1,2-Trichlorotrifluoroethane	U		0.000726	0.00269	1	02/17/2019 20:58	WG1238391
Tetrachloroethene	3.45		0.00301	0.0108	4	02/22/2019 00:05	WG1240554
Toluene	0.00148	J	0.00134	0.00538	1	02/17/2019 20:58	WG1238391
1,2,3-Trichlorobenzene	U		0.000672	0.00269	1	02/17/2019 20:58	WG1238391
1,2,4-Trichlorobenzene	U		0.00518	0.0134	1	02/17/2019 20:58	WG1238391
1,1,1-Trichloroethane	U		0.000296	0.00269	1	02/17/2019 20:58	WG1238391
1,1,2-Trichloroethane	U		0.000950	0.00269	1	02/17/2019 20:58	WG1238391
Trichloroethene	0.310		0.00172	0.00430	4	02/22/2019 00:05	WG1240554
Trichlorofluoromethane	U		0.000538	0.00269	1	02/17/2019 20:58	WG1238391
1,2,3-Trichloropropane	U		0.00548	0.0134	1	02/17/2019 20:58	WG1238391
1,2,4-Trimethylbenzene	U		0.00125	0.00538	1	02/17/2019 20:58	WG1238391
1,2,3-Trimethylbenzene	U		0.00124	0.00538	1	02/17/2019 20:58	WG1238391
1,3,5-Trimethylbenzene	U		0.00116	0.00538	1	02/17/2019 20:58	WG1238391
Vinyl acetate	U		0.00379	0.0134	1	02/17/2019 20:58	WG1238391
Vinyl chloride	0.0802		0.000734	0.00269	1	02/17/2019 20:58	WG1238391
Xylenes, Total	U		0.00514	0.00699	1	02/17/2019 20:58	WG1238391
(S) Toluene-d8	97.5			75.0-131		02/17/2019 20:58	WG1238391
(S) Toluene-d8	99.7			75.0-131		02/22/2019 00:05	WG1240554
(S) 4-Bromofluorobenzene	100			67.0-138		02/17/2019 20:58	WG1238391
(S) 4-Bromofluorobenzene	94.9			67.0-138		02/22/2019 00:05	WG1240554
(S) 1,2-Dichloroethane-d4	104			70.0-130		02/17/2019 20:58	WG1238391
(S) 1,2-Dichloroethane-d4	103			70.0-130		02/22/2019 00:05	WG1240554

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	95.9		1	02/19/2019 13:20	WG1239021

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0143	0.0261	1	02/22/2019 12:18	WG1240813
Acrylonitrile	U		0.00198	0.0130	1	02/17/2019 21:19	WG1238391
Benzene	0.000797	J	0.000417	0.00104	1	02/17/2019 21:19	WG1238391
Bromobenzene	U		0.00109	0.0130	1	02/17/2019 21:19	WG1238391
Bromodichloromethane	U		0.000821	0.00261	1	02/17/2019 21:19	WG1238391
Bromochloromethane	U		0.00118	0.00521	1	02/17/2019 21:19	WG1238391
Bromoform	U		0.00623	0.0261	1	02/17/2019 21:19	WG1238391
Bromomethane	U		0.00386	0.0130	1	02/17/2019 21:19	WG1238391
n-Butylbenzene	U		0.00400	0.0130	1	02/17/2019 21:19	WG1238391
sec-Butylbenzene	U		0.00264	0.0130	1	02/17/2019 21:19	WG1238391
tert-Butylbenzene	U		0.00162	0.00521	1	02/17/2019 21:19	WG1238391
Carbon disulfide	U		0.00423	0.0130	1	02/17/2019 21:19	WG1238391
Carbon tetrachloride	U		0.00113	0.00521	1	02/17/2019 21:19	WG1238391
Chlorobenzene	U		0.000597	0.00261	1	02/17/2019 21:19	WG1238391
Chlorodibromomethane	U		0.000469	0.00261	1	02/17/2019 21:19	WG1238391
Chloroethane	U		0.00113	0.00521	1	02/17/2019 21:19	WG1238391
Chloroform	U		0.000433	0.00261	1	02/17/2019 21:19	WG1238391
Chloromethane	U		0.00145	0.0130	1	02/17/2019 21:19	WG1238391
2-Chlorotoluene	U		0.000959	0.00261	1	02/17/2019 21:19	WG1238391
4-Chlorotoluene	U		0.00118	0.00521	1	02/17/2019 21:19	WG1238391
1,2-Dibromo-3-Chloropropane	U		0.00532	0.0261	1	02/17/2019 21:19	WG1238391
1,2-Dibromoethane	U		0.000547	0.00261	1	02/17/2019 21:19	WG1238391
Dibromomethane	U		0.00104	0.00521	1	02/17/2019 21:19	WG1238391
1,2-Dichlorobenzene	U		0.00151	0.00521	1	02/17/2019 21:19	WG1238391
1,3-Dichlorobenzene	U		0.00177	0.00521	1	02/17/2019 21:19	WG1238391
1,4-Dichlorobenzene	U		0.00205	0.00521	1	02/17/2019 21:19	WG1238391
Dichlorodifluoromethane	U		0.000853	0.00261	1	02/17/2019 21:19	WG1238391
1,1-Dichloroethane	U		0.000599	0.00261	1	02/17/2019 21:19	WG1238391
1,2-Dichloroethane	U		0.000495	0.00261	1	02/17/2019 21:19	WG1238391
1,1-Dichloroethene	U		0.000521	0.00261	1	02/17/2019 21:19	WG1238391
cis-1,2-Dichloroethene	0.0246		0.000719	0.00261	1	02/17/2019 21:19	WG1238391
trans-1,2-Dichloroethene	U		0.00149	0.00521	1	02/17/2019 21:19	WG1238391
1,2-Dichloropropane	U		0.00132	0.00521	1	02/17/2019 21:19	WG1238391
1,1-Dichloropropene	U		0.000730	0.00261	1	02/17/2019 21:19	WG1238391
1,3-Dichloropropane	U		0.00182	0.00521	1	02/17/2019 21:19	WG1238391
cis-1,3-Dichloropropene	U		0.000707	0.00261	1	02/17/2019 21:19	WG1238391
trans-1,3-Dichloropropene	U		0.00160	0.00521	1	02/17/2019 21:19	WG1238391
trans-1,4-Dichloro-2-butene	U		0.00146	0.00521	1	02/17/2019 21:19	WG1238391
2,2-Dichloropropane	U		0.000827	0.00261	1	02/17/2019 21:19	WG1238391
Di-isopropyl ether	U		0.000365	0.00104	1	02/17/2019 21:19	WG1238391
Ethylbenzene	U		0.000553	0.00261	1	02/17/2019 21:19	WG1238391
Hexachloro-1,3-butadiene	U		0.0132	0.0261	1	02/17/2019 21:19	WG1238391
2-Hexanone	U		0.0104	0.0261	1	02/17/2019 21:19	WG1238391
n-Hexane	U		0.00111	0.00521	1	02/17/2019 21:19	WG1238391
Iodomethane	U		0.00631	0.0130	1	02/17/2019 21:19	WG1238391
Isopropylbenzene	U		0.000900	0.00261	1	02/17/2019 21:19	WG1238391
p-Isopropyltoluene	U		0.00243	0.00521	1	02/17/2019 21:19	WG1238391
2-Butanone (MEK)	U		0.0130	0.0261	1	02/17/2019 21:19	WG1238391
Methylene Chloride	U		0.00692	0.0261	1	02/17/2019 21:19	WG1238391
4-Methyl-2-pentanone (MIBK)	U		0.0104	0.0261	1	02/17/2019 21:19	WG1238391

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/14/19 00:00

L1070864

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000308	0.00104	1	02/17/2019 21:19	WG1238391
Naphthalene	U		0.00325	0.0130	1	02/17/2019 21:19	WG1238391
n-Propylbenzene	U		0.00123	0.00521	1	02/17/2019 21:19	WG1238391
Styrene	U		0.00285	0.0130	1	02/17/2019 21:19	WG1238391
1,1,1,2-Tetrachloroethane	U		0.000521	0.00261	1	02/17/2019 21:19	WG1238391
1,1,2,2-Tetrachloroethane	U		0.000407	0.00261	1	02/17/2019 21:19	WG1238391
1,1,2-Trichlorotrifluoroethane	U		0.000704	0.00261	1	02/17/2019 21:19	WG1238391
Tetrachloroethene	0.0112		0.000730	0.00261	1	02/22/2019 12:18	WG1240813
Toluene	0.00233	U	0.00130	0.00521	1	02/17/2019 21:19	WG1238391
1,2,3-Trichlorobenzene	U		0.000652	0.00261	1	02/17/2019 21:19	WG1238391
1,2,4-Trichlorobenzene	U		0.00502	0.0130	1	02/17/2019 21:19	WG1238391
1,1,1-Trichloroethane	U		0.000287	0.00261	1	02/17/2019 21:19	WG1238391
1,1,2-Trichloroethane	U		0.000921	0.00261	1	02/17/2019 21:19	WG1238391
Trichloroethene	0.00173		0.000417	0.00104	1	02/22/2019 12:18	WG1240813
Trichlorofluoromethane	U		0.000521	0.00261	1	02/17/2019 21:19	WG1238391
1,2,3-Trichloropropane	U		0.00532	0.0130	1	02/17/2019 21:19	WG1238391
1,2,4-Trimethylbenzene	0.00146	U	0.00121	0.00521	1	02/17/2019 21:19	WG1238391
1,2,3-Trimethylbenzene	U		0.00120	0.00521	1	02/17/2019 21:19	WG1238391
1,3,5-Trimethylbenzene	U		0.00113	0.00521	1	02/17/2019 21:19	WG1238391
Vinyl acetate	U		0.00367	0.0130	1	02/17/2019 21:19	WG1238391
Vinyl chloride	0.0158		0.000712	0.00261	1	02/17/2019 21:19	WG1238391
Xylenes, Total	U		0.00498	0.00678	1	02/17/2019 21:19	WG1238391
(S) Toluene-d8	101			75.0-131		02/17/2019 21:19	WG1238391
(S) Toluene-d8	101			75.0-131		02/22/2019 12:18	WG1240813
(S) 4-Bromofluorobenzene	101			67.0-138		02/17/2019 21:19	WG1238391
(S) 4-Bromofluorobenzene	92.8			67.0-138		02/22/2019 12:18	WG1240813
(S) 1,2-Dichloroethane-d4	102			70.0-130		02/17/2019 21:19	WG1238391
(S) 1,2-Dichloroethane-d4	96.9			70.0-130		02/22/2019 12:18	WG1240813

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	94.2		1	02/19/2019 13:37	WG1239022

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0155	J	0.0145	0.0265	1	02/22/2019 00:25	WG1240722
Acrylonitrile	U		0.00202	0.0133	1	02/20/2019 12:35	WG1239738
Benzene	0.000746	J	0.000424	0.00106	1	02/20/2019 12:35	WG1239738
Bromobenzene	U		0.00111	0.0133	1	02/20/2019 12:35	WG1239738
Bromodichloromethane	U		0.000836	0.00265	1	02/20/2019 12:35	WG1239738
Bromochloromethane	U		0.00120	0.00531	1	02/20/2019 12:35	WG1239738
Bromoform	U		0.00635	0.0265	1	02/20/2019 12:35	WG1239738
Bromomethane	U		0.00393	0.0133	1	02/20/2019 12:35	WG1239738
n-Butylbenzene	U		0.00407	0.0133	1	02/20/2019 12:35	WG1239738
sec-Butylbenzene	U		0.00268	0.0133	1	02/20/2019 12:35	WG1239738
tert-Butylbenzene	U		0.00164	0.00531	1	02/20/2019 12:35	WG1239738
Carbon disulfide	U		0.00431	0.0133	1	02/20/2019 12:35	WG1239738
Carbon tetrachloride	U		0.00115	0.00531	1	02/20/2019 12:35	WG1239738
Chlorobenzene	U		0.000608	0.00265	1	02/20/2019 12:35	WG1239738
Chlorodibromomethane	U		0.000477	0.00265	1	02/20/2019 12:35	WG1239738
Chloroethane	U		0.00115	0.00531	1	02/20/2019 12:35	WG1239738
Chloroform	U		0.000440	0.00265	1	02/20/2019 12:35	WG1239738
Chloromethane	U		0.00147	0.0133	1	02/20/2019 12:35	WG1239738
2-Chlorotoluene	U		0.000976	0.00265	1	02/20/2019 12:35	WG1239738
4-Chlorotoluene	U		0.00120	0.00531	1	02/20/2019 12:35	WG1239738
1,2-Dibromo-3-Chloropropane	U		0.00541	0.0265	1	02/20/2019 12:35	WG1239738
1,2-Dibromoethane	U		0.000557	0.00265	1	02/20/2019 12:35	WG1239738
Dibromomethane	U		0.00106	0.00531	1	02/20/2019 12:35	WG1239738
1,2-Dichlorobenzene	U		0.00154	0.00531	1	02/20/2019 12:35	WG1239738
1,3-Dichlorobenzene	U		0.00180	0.00531	1	02/20/2019 12:35	WG1239738
1,4-Dichlorobenzene	U		0.00209	0.00531	1	02/20/2019 12:35	WG1239738
Dichlorodifluoromethane	U		0.000868	0.00265	1	02/20/2019 12:35	WG1239738
1,1-Dichloroethane	U		0.000610	0.00265	1	02/20/2019 12:35	WG1239738
1,2-Dichloroethane	U		0.000504	0.00265	1	02/20/2019 12:35	WG1239738
1,1-Dichloroethene	U		0.000531	0.00265	1	02/20/2019 12:35	WG1239738
cis-1,2-Dichloroethene	0.0260		0.000732	0.00265	1	02/20/2019 12:35	WG1239738
trans-1,2-Dichloroethene	U		0.00152	0.00531	1	02/20/2019 12:35	WG1239738
1,2-Dichloropropane	U		0.00135	0.00531	1	02/20/2019 12:35	WG1239738
1,1-Dichloropropene	U		0.000743	0.00265	1	02/20/2019 12:35	WG1239738
1,3-Dichloropropane	U		0.00186	0.00531	1	02/20/2019 12:35	WG1239738
cis-1,3-Dichloropropene	U		0.000719	0.00265	1	02/20/2019 12:35	WG1239738
trans-1,3-Dichloropropene	U		0.00162	0.00531	1	02/20/2019 12:35	WG1239738
trans-1,4-Dichloro-2-butene	U		0.00149	0.00531	1	02/20/2019 12:35	WG1239738
2,2-Dichloropropane	U		0.000841	0.00265	1	02/20/2019 12:35	WG1239738
Di-isopropyl ether	U		0.000371	0.00106	1	02/20/2019 12:35	WG1239738
Ethylbenzene	0.000651	J	0.000562	0.00265	1	02/20/2019 12:35	WG1239738
Hexachloro-1,3-butadiene	U		0.0135	0.0265	1	02/20/2019 12:35	WG1239738
2-Hexanone	U		0.0106	0.0265	1	02/20/2019 12:35	WG1239738
n-Hexane	U		0.00112	0.00531	1	02/20/2019 12:35	WG1239738
Iodomethane	U		0.00642	0.0133	1	02/20/2019 12:35	WG1239738
Isopropylbenzene	U		0.000916	0.00265	1	02/20/2019 12:35	WG1239738
p-Isopropyltoluene	U		0.00247	0.00531	1	02/20/2019 12:35	WG1239738
2-Butanone (MEK)	0.0438		0.0133	0.0265	1	02/20/2019 12:35	WG1239738
Methylene Chloride	U		0.00705	0.0265	1	02/20/2019 12:35	WG1239738
4-Methyl-2-pentanone (MIBK)	U		0.0106	0.0265	1	02/20/2019 12:35	WG1239738

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/14/19 00:00

L1070864

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000313	0.00106	1	02/20/2019 12:35	WG1239738
Naphthalene	U		0.00331	0.0133	1	02/20/2019 12:35	WG1239738
n-Propylbenzene	U		0.00125	0.00531	1	02/20/2019 12:35	WG1239738
Styrene	U		0.00290	0.0133	1	02/20/2019 12:35	WG1239738
1,1,1,2-Tetrachloroethane	U		0.000531	0.00265	1	02/20/2019 12:35	WG1239738
1,1,2,2-Tetrachloroethane	U		0.000414	0.00265	1	02/20/2019 12:35	WG1239738
1,1,2-Trichlorotrifluoroethane	U		0.000716	0.00265	1	02/20/2019 12:35	WG1239738
Tetrachloroethene	0.0148		0.000743	0.00265	1	02/20/2019 12:35	WG1239738
Toluene	0.00200	L	0.00133	0.00531	1	02/20/2019 12:35	WG1239738
1,2,3-Trichlorobenzene	U		0.000663	0.00265	1	02/20/2019 12:35	WG1239738
1,2,4-Trichlorobenzene	U		0.00511	0.0133	1	02/20/2019 12:35	WG1239738
1,1,1-Trichloroethane	U		0.000292	0.00265	1	02/20/2019 12:35	WG1239738
1,1,2-Trichloroethane	U		0.000937	0.00265	1	02/20/2019 12:35	WG1239738
Trichloroethene	0.00198		0.000424	0.00106	1	02/20/2019 12:35	WG1239738
Trichlorofluoromethane	U		0.000531	0.00265	1	02/20/2019 12:35	WG1239738
1,2,3-Trichloropropane	U		0.00541	0.0133	1	02/20/2019 12:35	WG1239738
1,2,4-Trimethylbenzene	0.00175	L	0.00123	0.00531	1	02/20/2019 12:35	WG1239738
1,2,3-Trimethylbenzene	0.00136	L	0.00122	0.00531	1	02/20/2019 12:35	WG1239738
1,3,5-Trimethylbenzene	U		0.00115	0.00531	1	02/20/2019 12:35	WG1239738
Vinyl acetate	U		0.00373	0.0133	1	02/20/2019 12:35	WG1239738
Vinyl chloride	0.0223		0.000725	0.00265	1	02/20/2019 12:35	WG1239738
Xylenes, Total	0.00595	L	0.00507	0.00690	1	02/20/2019 12:35	WG1239738
(S) Toluene-d8	101			75.0-131		02/20/2019 12:35	WG1239738
(S) Toluene-d8	98.2			75.0-131		02/22/2019 00:25	WG1240722
(S) 4-Bromofluorobenzene	94.1			67.0-138		02/20/2019 12:35	WG1239738
(S) 4-Bromofluorobenzene	93.9			67.0-138		02/22/2019 00:25	WG1240722
(S) 1,2-Dichloroethane-d4	85.7			70.0-130		02/20/2019 12:35	WG1239738
(S) 1,2-Dichloroethane-d4	97.1			70.0-130		02/22/2019 00:25	WG1240722

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3385228-1 02/19/19 13:38

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

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

L1070864-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1070864-02 02/19/19 13:38 • (DUP) R3385228-3 02/19/19 13:38

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	86.5	88.4	1	2.16		10

Laboratory Control Sample (LCS)

(LCS) R3385228-2 02/19/19 13:38

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3385226-1 02/19/19 13:20

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00200			

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

L1070864-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1070864-10 02/19/19 13:20 • (DUP) R3385226-3 02/19/19 13:20

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	85.3	85.9	1	0.688		10

Laboratory Control Sample (LCS)

(LCS) R3385226-2 02/19/19 13:20

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3385235-1 02/19/19 13:37

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

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1070870-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1070870-01 02/19/19 13:37 • (DUP) R3385235-3 02/19/19 13:37

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	70.6	71.5	1	1.38		10

Laboratory Control Sample (LCS)

(LCS) R3385235-2 02/19/19 13:37

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



Method Blank (MB)

(MB) R3385513-2 02/18/19 10:52

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)	95.0			77.0-120

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) R3385513-1 02/18/19 09:47 • (LCSD) R3385513-3 02/18/19 11:51

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	5.94	6.29	108	114	71.0-124			5.80	20
(S) a,a,a-Trifluorotoluene(FID)				114	117	77.0-120				

L1070864-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1070864-01 02/18/19 13:16 • (MS) R3385513-4 02/18/19 12:12 • (MSD) R3385513-5 02/18/19 12:34

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	7.47	3.52	154	143	80.5	74.7	25	10.0-149			7.32	27
(S) a,a,a-Trifluorotoluene(FID)					113	113		77.0-120				



Method Blank (MB)

(MB) R3384442-2 02/17/19 13:49

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3384442-2 02/17/19 13:49

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexachloro-1,3-butadiene	U		0.0127	0.0250
n-Hexane	U		0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	0.00674	U	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	98.9			75.0-131
(S) 4-Bromofluorobenzene	103			67.0-138
(S) 1,2-Dichloroethane-d4	105			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3384442-1 02/17/19 12:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acrylonitrile	0.625	0.651	104	45.0-153	
Benzene	0.125	0.119	95.4	70.0-123	
Bromobenzene	0.125	0.113	90.6	73.0-121	
Bromodichloromethane	0.125	0.118	94.1	73.0-121	
Bromochloromethane	0.125	0.124	99.5	77.0-128	
Bromoform	0.125	0.113	90.3	64.0-132	
Bromomethane	0.125	0.124	99.6	56.0-147	
n-Butylbenzene	0.125	0.101	80.7	68.0-135	
sec-Butylbenzene	0.125	0.110	88.2	74.0-130	
tert-Butylbenzene	0.125	0.112	89.7	75.0-127	
Carbon disulfide	0.125	0.113	90.6	56.0-133	
Carbon tetrachloride	0.125	0.122	97.5	66.0-128	
Chlorobenzene	0.125	0.112	90.0	76.0-128	
Chlorodibromomethane	0.125	0.118	94.7	74.0-127	
Chloroethane	0.125	0.128	102	61.0-134	
Chloroform	0.125	0.128	103	72.0-123	
Chloromethane	0.125	0.129	103	51.0-138	
2-Chlorotoluene	0.125	0.113	90.7	75.0-124	
4-Chlorotoluene	0.125	0.115	92.3	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.106	84.4	59.0-130	
1,2-Dibromoethane	0.125	0.114	91.5	74.0-128	
Dibromomethane	0.125	0.128	103	75.0-122	
1,2-Dichlorobenzene	0.125	0.106	84.7	76.0-124	
1,3-Dichlorobenzene	0.125	0.107	85.7	76.0-125	
1,4-Dichlorobenzene	0.125	0.103	82.7	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.108	86.5	45.0-143	
Dichlorodifluoromethane	0.125	0.126	101	43.0-156	
1,1-Dichloroethane	0.125	0.134	107	70.0-127	
1,2-Dichloroethane	0.125	0.141	113	65.0-131	
1,1-Dichloroethene	0.125	0.123	98.1	65.0-131	
cis-1,2-Dichloroethene	0.125	0.117	93.2	73.0-125	
trans-1,2-Dichloroethene	0.125	0.130	104	71.0-125	
1,2-Dichloropropane	0.125	0.127	101	74.0-125	
1,1-Dichloropropene	0.125	0.115	91.9	73.0-125	
1,3-Dichloropropane	0.125	0.117	93.8	80.0-125	
cis-1,3-Dichloropropene	0.125	0.119	95.4	76.0-127	
trans-1,3-Dichloropropene	0.125	0.112	89.5	73.0-127	
2,2-Dichloropropane	0.125	0.136	109	59.0-135	
Di-isopropyl ether	0.125	0.137	109	60.0-136	
Ethylbenzene	0.125	0.110	87.9	74.0-126	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3384442-1 02/17/19 12:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Hexachloro-1,3-butadiene	0.125	0.0977	78.2	57.0-150	
2-Hexanone	0.625	0.603	96.5	54.0-147	
n-Hexane	0.125	0.126	101	55.0-137	
Iodomethane	0.625	0.610	97.6	74.0-134	
Isopropylbenzene	0.125	0.115	91.7	72.0-127	
p-Isopropyltoluene	0.125	0.104	83.6	72.0-133	
2-Butanone (MEK)	0.625	0.668	107	30.0-160	
Methylene Chloride	0.125	0.118	94.2	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.635	102	56.0-143	
Methyl tert-butyl ether	0.125	0.136	109	66.0-132	
Naphthalene	0.125	0.102	81.8	59.0-130	
n-Propylbenzene	0.125	0.113	90.2	74.0-126	
Styrene	0.125	0.110	87.8	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.114	91.5	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.118	94.7	68.0-128	
Tetrachloroethene	0.125	0.119	95.0	70.0-136	
Toluene	0.125	0.112	89.3	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.136	108	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.103	82.8	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.0992	79.3	62.0-137	
1,1,1-Trichloroethane	0.125	0.130	104	69.0-126	
1,1,2-Trichloroethane	0.125	0.120	95.8	78.0-123	
Trichlorofluoromethane	0.125	0.140	112	61.0-142	
1,2,3-Trichloropropane	0.125	0.120	95.8	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.107	85.8	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.111	88.9	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.112	89.5	73.0-127	
Vinyl acetate	0.625	0.743	119	43.0-159	
Vinyl chloride	0.125	0.127	102	63.0-134	
Xylenes, Total	0.375	0.344	91.7	72.0-127	
(S) Toluene-d8			98.9	75.0-131	
(S) 4-Bromofluorobenzene			102	67.0-138	
(S) 1,2-Dichloroethane-d4			105	70.0-130	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3385962-2 02/20/19 12:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3385962-2 02/20/19 12:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexachloro-1,3-butadiene	U		0.0127	0.0250
n-Hexane	0.00156	U	0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	0.0114	U	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	100			75.0-131
(S) 4-Bromofluorobenzene	96.3			67.0-138
(S) 1,2-Dichloroethane-d4	85.6			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Laboratory Control Sample (LCS)

(LCS) R3385962-1 02/20/19 10:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acrylonitrile	0.625	0.677	108	45.0-153	
Benzene	0.125	0.127	101	70.0-123	
Bromobenzene	0.125	0.115	92.3	73.0-121	
Bromodichloromethane	0.125	0.119	95.0	73.0-121	
Bromochloromethane	0.125	0.137	110	77.0-128	
Bromoform	0.125	0.136	109	64.0-132	
Bromomethane	0.125	0.134	107	56.0-147	
n-Butylbenzene	0.125	0.109	87.0	68.0-135	
sec-Butylbenzene	0.125	0.108	86.4	74.0-130	
tert-Butylbenzene	0.125	0.110	88.2	75.0-127	
Carbon disulfide	0.125	0.137	110	56.0-133	
Carbon tetrachloride	0.125	0.127	101	66.0-128	
Chlorobenzene	0.125	0.123	98.3	76.0-128	
Chlorodibromomethane	0.125	0.126	101	74.0-127	
Chloroethane	0.125	0.139	111	61.0-134	
Chloroform	0.125	0.123	98.6	72.0-123	
Chloromethane	0.125	0.143	114	51.0-138	
2-Chlorotoluene	0.125	0.117	93.4	75.0-124	
4-Chlorotoluene	0.125	0.113	90.5	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.129	103	59.0-130	
1,2-Dibromoethane	0.125	0.132	105	74.0-128	
Dibromomethane	0.125	0.129	103	75.0-122	
1,2-Dichlorobenzene	0.125	0.121	96.9	76.0-124	
1,3-Dichlorobenzene	0.125	0.120	95.8	76.0-125	
1,4-Dichlorobenzene	0.125	0.117	93.7	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.0983	78.7	45.0-143	
Dichlorodifluoromethane	0.125	0.150	120	43.0-156	
1,1-Dichloroethane	0.125	0.124	99.4	70.0-127	
1,2-Dichloroethane	0.125	0.107	85.9	65.0-131	
1,1-Dichloroethene	0.125	0.124	99.4	65.0-131	
cis-1,2-Dichloroethene	0.125	0.123	98.5	73.0-125	
trans-1,2-Dichloroethene	0.125	0.123	98.4	71.0-125	
1,2-Dichloropropane	0.125	0.125	99.7	74.0-125	
1,1-Dichloropropene	0.125	0.118	94.4	73.0-125	
1,3-Dichloropropane	0.125	0.127	102	80.0-125	
cis-1,3-Dichloropropene	0.125	0.126	101	76.0-127	
trans-1,3-Dichloropropene	0.125	0.124	98.9	73.0-127	
2,2-Dichloropropane	0.125	0.125	100	59.0-135	
Di-isopropyl ether	0.125	0.123	98.8	60.0-136	
Ethylbenzene	0.125	0.124	98.9	74.0-126	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3385962-1 02/20/19 10:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Hexachloro-1,3-butadiene	0.125	0.123	98.6	57.0-150	
2-Hexanone	0.625	0.651	104	54.0-147	
n-Hexane	0.125	0.115	91.6	55.0-137	
Iodomethane	0.625	0.662	106	74.0-134	
Isopropylbenzene	0.125	0.126	101	72.0-127	
p-Isopropyltoluene	0.125	0.113	90.6	72.0-133	
2-Butanone (MEK)	0.625	0.669	107	30.0-160	
Methylene Chloride	0.125	0.132	105	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.617	98.8	56.0-143	
Methyl tert-butyl ether	0.125	0.118	94.5	66.0-132	
Naphthalene	0.125	0.127	102	59.0-130	
n-Propylbenzene	0.125	0.115	92.3	74.0-126	
Styrene	0.125	0.129	103	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.120	95.6	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.127	102	68.0-128	
Tetrachloroethene	0.125	0.126	101	70.0-136	
Toluene	0.125	0.124	99.2	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.125	100	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.117	93.4	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.119	95.1	62.0-137	
1,1,1-Trichloroethane	0.125	0.123	98.2	69.0-126	
1,1,2-Trichloroethane	0.125	0.129	103	78.0-123	
Trichloroethene	0.125	0.127	101	76.0-126	
Trichlorofluoromethane	0.125	0.134	107	61.0-142	
1,2,3-Trichloropropane	0.125	0.117	93.5	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.113	90.2	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.115	92.4	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.118	94.5	73.0-127	
Vinyl acetate	0.625	0.785	126	43.0-159	
Vinyl chloride	0.125	0.142	114	63.0-134	
Xylenes, Total	0.375	0.382	102	72.0-127	
(S) Toluene-d8			98.6	75.0-131	
(S) 4-Bromofluorobenzene			98.6	67.0-138	
(S) 1,2-Dichloroethane-d4			90.5	70.0-130	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3386076-2 02/21/19 18:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Tetrachloroethene	U		0.000700	0.00250
Trichloroethene	U		0.000400	0.00100
(S) Toluene-d8	99.9			75.0-131
(S) 4-Bromofluorobenzene	95.6			67.0-138
(S) 1,2-Dichloroethane-d4	97.8			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3386076-1 02/21/19 17:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.627	100	10.0-160	
Tetrachloroethene	0.125	0.0922	73.8	70.0-136	
Trichloroethene	0.125	0.123	98.6	76.0-126	
(S) Toluene-d8			97.0	75.0-131	
(S) 4-Bromofluorobenzene			96.0	67.0-138	
(S) 1,2-Dichloroethane-d4			103	70.0-130	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3386077-2 02/21/19 18:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
(S) Toluene-d8	99.9			75.0-131
(S) 4-Bromofluorobenzene	95.6			67.0-138
(S) 1,2-Dichloroethane-d4	97.8			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3386077-1 02/21/19 17:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.627	100	10.0-160	
(S) Toluene-d8			97.0	75.0-131	
(S) 4-Bromofluorobenzene			96.0	67.0-138	
(S) 1,2-Dichloroethane-d4			103	70.0-130	



Method Blank (MB)

(MB) R3386189-2 02/22/19 11:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Tetrachloroethene	U		0.000700	0.00250
Trichloroethene	U		0.000400	0.00100
(S) Toluene-d8	102			75.0-131
(S) 4-Bromofluorobenzene	95.5			67.0-138
(S) 1,2-Dichloroethane-d4	95.4			70.0-130

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

Laboratory Control Sample (LCS)

(LCS) R3386189-1 02/22/19 10:16

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.703	113	10.0-160	
Tetrachloroethene	0.125	0.100	80.0	70.0-136	
Trichloroethene	0.125	0.129	103	76.0-126	
(S) Toluene-d8			99.6	75.0-131	
(S) 4-Bromofluorobenzene			94.8	67.0-138	
(S) 1,2-Dichloroethane-d4			103	70.0-130	

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, the sample preparation volume or weight values differ from the standard, 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.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
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.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Pace National 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.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

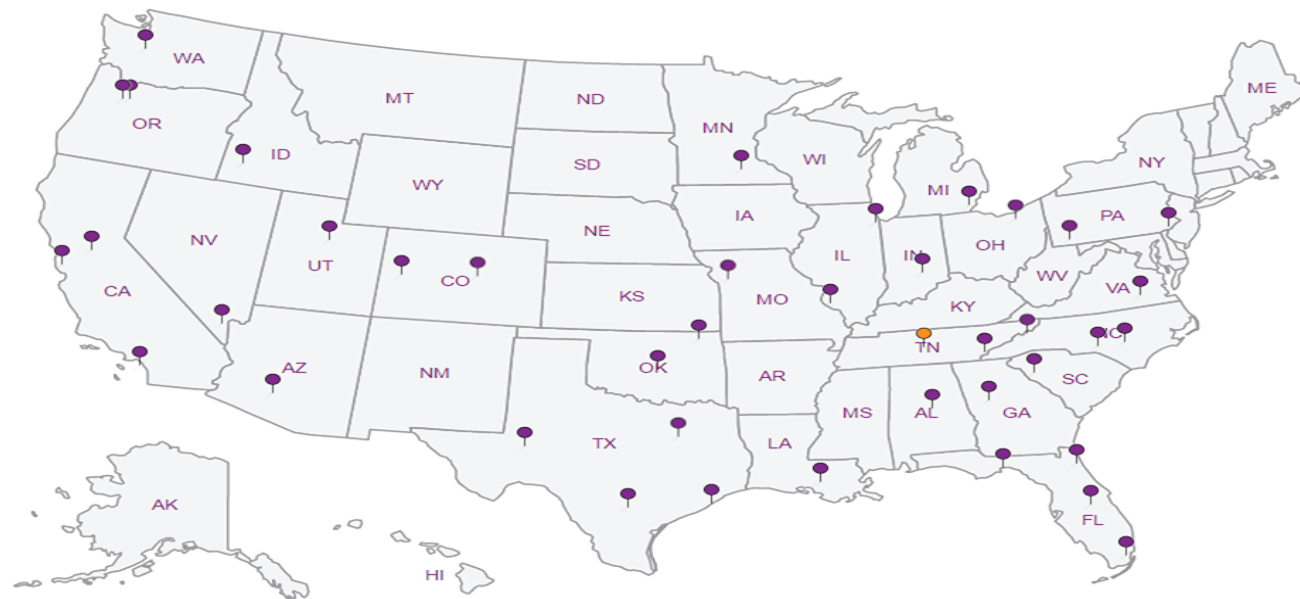
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National 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. Pace National performs all testing at our central laboratory.



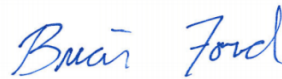
CHAIN-OF-CUSTODY Analytical Request Document Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields										LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here																			
Company: PES Environmental Inc. WA					Billing Information: Attn: Accounts Payable 1215 Fourth Ave., Ste. 1315 Seattle, WA 98161					ALL SHADED AREAS are for LAB USE ONLY																			
Address: 1215 Fourth Ave. Suite 1350 Seattle, WA 98161					Report To: Brian O'Neal/Bill Haldeman					Email To: boneal@pesenv.com; bhaldeman@pesenv.com; kvik@pesenv.com					Container Preservative Type **					Lab Project Manager:									
Copy To:					Site Collection Info/Address:					** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other																			
Customer Project Name/Number: 1413.001.05.501					State: County/City: Time Zone Collected: / [] PT [] MT [] CT [] ET					Analyses										Lab Profile/Line:									
Phone: 206-529-3980 Email:					Site/Facility ID #:					Compliance Monitoring? [] Yes [] No					VOCs 8260C 40mlAmb/MeOH5ml/Syr dry weight 2ozClr-NoPres										Lab Sample Receipt Checklist:				
Collected By (print): <i>Alissa Wilt</i>					Purchase Order #: Quote #:					DW PWS ID #: DW Location Code:															Custody Seals Present/Intact Y N NA				
Collected By (signature): <i>Alissa Wilt</i>					Turnaround Date Required:					Immediately Packed on Ice: [] Yes [] No															Custody Signatures Present Y N NA				
Sample Disposal: [] Dispose as appropriate [] Return [] Archive: [] Hold:					Rush: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day (Expedite Charges Apply)					Field Filtered (if applicable): [] Yes [] No															Collector Signature Present Y N NA				
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)					Analysis:																				Bottles Intact Y N NA				
Customer Sample ID					Matrix *		Comp / Grab	Collected (or Composite Start)		Date		Time		Date	Time		Res Cl	# of Ctns	Correct Bottles Y N NA										
B5DS-10					SS		Grab	2-14-19		10						2	X	X	Sufficient Volume Y N NA										
B5DS-15								2-14-19		15						2	X	X	Samples Received on Ice Y N NA										
B5DS-20								2-14-19		20						2	X	X	VOA - Headspace Acceptable Y N NA										
B5DS-25								2-14-19		25						2	X	X	USDA Regulated Soils Y N NA										
B5DS-32								2-14-19		32						2	X	X	Samples in Holding Time Y N NA										
B5DS-35								2-14-19		35						2	X	X	Residual Chlorine Present Y N NA										
B5DS-40								2-14-19		40						2	X	X	Cl Strips: Y N NA										
B5DS-45								2-14-19		45						2	X	X	Sample pH Acceptable Y N NA										
B5DS-50								2-14-19		50						2	X	X	pH Strips: Y N NA										
B-932-50								2-14-19		50						2	X	X	Sulfide Present Y N NA										
Customer Remarks / Special Conditions / Possible Hazards:					Type of Ice Used: Wet Blue Dry None					SHORT HOLDS PRESENT (<72 hours): Y N N/A					Lab Sample Temperature Info:														
Packing Material Used:					Radchem sample(s) screened (<500 cpm): Y N NA					Lab Tracking #: Same					Temp Blank Received: Y N NA														
Relinquished by/Company: (Signature)					Date/Time: 2-14-19 1300					Received by/Company: (Signature)					Date/Time: 2/15/19 0830					Therm ID#: AM 15									
Relinquished by/Company: (Signature)					Date/Time:					Received by/Company: (Signature)					Date/Time:					Cooler 1 Temp Upon Receipt: 0.6 oC									
Relinquished by/Company: (Signature)					Date/Time:					Received by/Company: (Signature)					Date/Time:					Cooler 1 Therm Corr. Factor: 10 oC									
																				Cooler 1 Corrected Temp: 0.6 oC									
																				Comments: RAD SCREEN: <0.5 mPR/hr									
																				Trip Blank Received: Y N NA									
																				HCL MeOH TSP Other									
																				Non Conformance(s): Page: of:									
																				YES / NO of:									

February 20, 2019

PES Environmental, Inc.- WA

Sample Delivery Group: L1070990
Samples Received: 02/16/2019
Project Number:
Description: American Linen
Site: AMERICAN LINEN
Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford
Project Manager

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 Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
SV01-020619 L1070990-01	5
SV02-020619 L1070990-02	7
SV03-020619 L1070990-03	9
Qc: Quality Control Summary	11
Volatile Organic Compounds (MS) by Method TO-15	11
Gl: Glossary of Terms	15
Al: Accreditations & Locations	16
Sc: Sample Chain of Custody	17

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

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



SV01-020619 L1070990-01 Air

Collected by
Chris Deboer

Collected date/time
02/06/19 09:05

Received date/time
02/16/19 08:45

¹Cp

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG1239127	2	02/19/19 21:25	02/19/19 21:25	AMC

²Tc

SV02-020619 L1070990-02 Air

Collected by
Chris Deboer

Collected date/time
02/06/19 10:05

Received date/time
02/16/19 08:45

³Ss

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG1239127	2	02/19/19 22:08	02/19/19 22:08	AMC

⁴Cn

⁵Sr

SV03-020619 L1070990-03 Air

Collected by
Chris Deboer

Collected date/time
02/06/19 11:30

Received date/time
02/16/19 08:45

⁶Qc

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG1239127	2	02/19/19 22:55	02/19/19 22:55	AMC

⁷Gl

⁸Al

⁹Sc

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

SDG:

L1070990

DATE/TIME:

02/20/19 16:32

PAGE:

3 of 17



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, 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
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

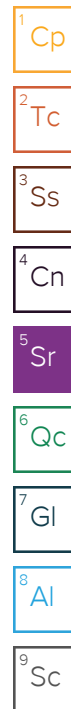
⁸ Al

⁹ Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	ND	ND		2	WG1239127
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1239127
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1239127
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1239127
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1239127
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1239127
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1239127
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1239127
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1239127
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1239127
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1239127
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1239127
Chloroform	67-66-3	119	0.400	1.95	ND	ND		2	WG1239127
Chloromethane	74-87-3	50.50	0.400	0.826	ND	ND		2	WG1239127
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1239127
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1239127
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1239127
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1239127
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1239127
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1239127
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1239127
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1239127
1,1-Dichloroethane	75-34-3	98	0.400	1.60	ND	ND		2	WG1239127
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1239127
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1239127
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1239127
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1239127
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1239127
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1239127
1,4-Dioxane	123-91-1	88.10	0.400	1.44	ND	ND		2	WG1239127
Ethanol	64-17-5	46.10	1.26	2.38	3.77	7.11		2	WG1239127
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1239127
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1239127
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1239127
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	ND	ND		2	WG1239127
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1239127
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND		2	WG1239127
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1239127
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1239127
n-Hexane	110-54-3	86.20	0.400	1.41	ND	ND		2	WG1239127
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1239127
Methylene Chloride	75-09-2	84.90	0.400	1.39	0.678	2.35		2	WG1239127
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1239127
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1239127
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1239127
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1239127
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1239127
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1239127
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG1239127
Propene	115-07-1	42.10	0.800	1.38	ND	ND		2	WG1239127
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1239127
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1239127
Tetrachloroethylene	127-18-4	166	0.400	2.72	ND	ND		2	WG1239127
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	ND	ND		2	WG1239127
Toluene	108-88-3	92.10	0.400	1.51	0.487	1.83		2	WG1239127
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1239127





Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	4.05	22.0		2	WG1239127
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	WG1239127
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	WG1239127
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	ND	ND		2	WG1239127
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	WG1239127
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	WG1239127
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG1239127
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	WG1239127
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	WG1239127
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	WG1239127
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	WG1239127
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.7				WG1239127

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	11.5	27.3		2	WG1239127
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1239127
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1239127
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1239127
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1239127
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1239127
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1239127
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1239127
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1239127
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1239127
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1239127
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1239127
Chloroform	67-66-3	119	0.400	1.95	ND	ND		2	WG1239127
Chloromethane	74-87-3	50.50	0.400	0.826	0.569	1.18		2	WG1239127
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1239127
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1239127
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1239127
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1239127
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1239127
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1239127
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1239127
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1239127
1,1-Dichloroethane	75-34-3	98	0.400	1.60	ND	ND		2	WG1239127
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1239127
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1239127
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1239127
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1239127
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1239127
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1239127
1,4-Dioxane	123-91-1	88.10	0.400	1.44	ND	ND		2	WG1239127
Ethanol	64-17-5	46.10	1.26	2.38	30.2	56.9		2	WG1239127
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1239127
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1239127
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1239127
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	0.499	2.47		2	WG1239127
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1239127
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND		2	WG1239127
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1239127
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1239127
n-Hexane	110-54-3	86.20	0.400	1.41	0.563	1.99		2	WG1239127
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1239127
Methylene Chloride	75-09-2	84.90	0.400	1.39	0.942	3.27		2	WG1239127
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1239127
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1239127
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1239127
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1239127
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1239127
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1239127
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG1239127
Propene	115-07-1	42.10	0.800	1.38	ND	ND		2	WG1239127
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1239127
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1239127
Tetrachloroethylene	127-18-4	166	0.400	2.72	ND	ND		2	WG1239127
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	ND	ND		2	WG1239127
Toluene	108-88-3	92.10	0.400	1.51	0.840	3.16		2	WG1239127
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1239127

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	ND	ND		2	WG1239127
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	WG1239127
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	WG1239127
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	ND	ND		2	WG1239127
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	WG1239127
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	WG1239127
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG1239127
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	WG1239127
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	WG1239127
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	WG1239127
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	WG1239127
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.2				WG1239127

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	9.42	22.4		2	WG1239127
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1239127
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1239127
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1239127
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1239127
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1239127
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1239127
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1239127
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1239127
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1239127
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1239127
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1239127
Chloroform	67-66-3	119	0.400	1.95	ND	ND		2	WG1239127
Chloromethane	74-87-3	50.50	0.400	0.826	0.811	1.68		2	WG1239127
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1239127
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1239127
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1239127
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1239127
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1239127
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1239127
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1239127
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1239127
1,1-Dichloroethane	75-34-3	98	0.400	1.60	ND	ND		2	WG1239127
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1239127
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1239127
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1239127
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1239127
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1239127
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1239127
1,4-Dioxane	123-91-1	88.10	0.400	1.44	ND	ND		2	WG1239127
Ethanol	64-17-5	46.10	1.26	2.38	10.1	19.0		2	WG1239127
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1239127
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1239127
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1239127
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	ND	ND		2	WG1239127
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1239127
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND		2	WG1239127
Heptane	142-82-5	100	0.400	1.64	0.807	3.30		2	WG1239127
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1239127
n-Hexane	110-54-3	86.20	0.400	1.41	3.47	12.2		2	WG1239127
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1239127
Methylene Chloride	75-09-2	84.90	0.400	1.39	0.729	2.53		2	WG1239127
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1239127
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1239127
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1239127
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1239127
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1239127
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1239127
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG1239127
Propene	115-07-1	42.10	0.800	1.38	ND	ND		2	WG1239127
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1239127
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1239127
Tetrachloroethylene	127-18-4	166	0.400	2.72	ND	ND		2	WG1239127
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	ND	ND		2	WG1239127
Toluene	108-88-3	92.10	0.400	1.51	0.459	1.73		2	WG1239127
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1239127

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	ND	ND		2	WG1239127
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	WG1239127
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	WG1239127
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	ND	ND		2	WG1239127
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	WG1239127
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	WG1239127
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG1239127
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	WG1239127
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	WG1239127
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	WG1239127
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	WG1239127
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.7				WG1239127

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3385279-3 02/19/19 12:01

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.0569	1.25
Allyl Chloride	U		0.0546	0.200
Benzene	U		0.0460	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0436	0.200
Bromoform	U		0.0786	0.600
Bromomethane	U		0.0609	0.200
1,3-Butadiene	U		0.0563	2.00
Carbon disulfide	U		0.0544	0.200
Carbon tetrachloride	U		0.0585	0.200
Chlorobenzene	U		0.0601	0.200
Chloroethane	U		0.0489	0.200
Chloroform	U		0.0574	0.200
Chloromethane	U		0.0544	0.200
2-Chlorotoluene	U		0.0605	0.200
Cyclohexane	U		0.0534	0.200
Dibromochloromethane	U		0.0494	0.200
1,2-Dibromoethane	U		0.0185	0.200
1,2-Dichlorobenzene	U		0.0603	0.200
1,3-Dichlorobenzene	U		0.0597	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0616	0.200
1,1-Dichloroethane	U		0.0514	0.200
1,1-Dichloroethene	U		0.0490	0.200
cis-1,2-Dichloroethene	U		0.0389	0.200
trans-1,2-Dichloroethene	U		0.0464	0.200
1,2-Dichloropropane	U		0.0599	0.200
cis-1,3-Dichloropropene	U		0.0588	0.200
trans-1,3-Dichloropropene	U		0.0435	0.200
1,4-Dioxane	U		0.0554	0.200
Ethylbenzene	U		0.0506	0.200
4-Ethyltoluene	U		0.0666	0.200
Trichlorofluoromethane	U		0.0673	0.200
Dichlorodifluoromethane	U		0.0601	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0687	0.200
1,2-Dichlorotetrafluoroethane	U		0.0458	0.200
Heptane	U		0.0626	0.200
Hexachloro-1,3-butadiene	U		0.0656	0.630
n-Hexane	U		0.0457	0.200
Isopropylbenzene	U		0.0563	0.200

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



Method Blank (MB)

(MB) R3385279-3 02/19/19 12:01

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methylene Chloride	U		0.0465	0.200
Methyl Butyl Ketone	U		0.0682	1.25
2-Butanone (MEK)	U		0.0493	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0650	1.25
Methyl Methacrylate	U		0.0773	0.200
MTBE	U		0.0505	0.200
Naphthalene	U		0.154	0.630
2-Propanol	U		0.0882	1.25
Propene	U		0.0932	0.400
Styrene	U		0.0465	0.200
1,1,2,2-Tetrachloroethane	U		0.0576	0.200
Tetrachloroethylene	U		0.0497	0.200
Tetrahydrofuran	U		0.0508	0.200
Toluene	U		0.0499	0.200
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0665	0.200
1,1,2-Trichloroethane	U		0.0287	0.200
Trichloroethylene	U		0.0545	0.200
1,2,4-Trimethylbenzene	U		0.0483	0.200
1,3,5-Trimethylbenzene	U		0.0631	0.200
2,2,4-Trimethylpentane	U		0.0456	0.200
Vinyl chloride	U		0.0457	0.200
Vinyl Bromide	U		0.0727	0.200
Vinyl acetate	U		0.0639	0.200
m&p-Xylene	U		0.0946	0.400
o-Xylene	U		0.0633	0.200
Ethanol	U		0.0832	0.630
(S) 1,4-Bromofluorobenzene	97.9			60.0-140

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3385279-1 02/19/19 10:32 • (LCSD) R3385279-2 02/19/19 11:16

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethanol	3.75	3.77	3.88	101	104	55.0-148			3.02	25
Propene	3.75	4.04	4.08	108	109	64.0-144			0.855	25
Dichlorodifluoromethane	3.75	4.42	4.41	118	118	64.0-139			0.353	25
1,2-Dichlorotetrafluoroethane	3.75	4.06	4.10	108	109	70.0-130			0.967	25
Chloromethane	3.75	4.15	4.17	111	111	70.0-130			0.347	25

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

(LCS) R3385279-1 02/19/19 10:32 • (LCSD) R3385279-2 02/19/19 11:16

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Vinyl chloride	3.75	3.91	3.92	104	105	70.0-130			0.161	25
1,3-Butadiene	3.75	3.84	3.89	102	104	70.0-130			1.53	25
Bromomethane	3.75	3.94	3.98	105	106	70.0-130			1.08	25
Chloroethane	3.75	4.07	4.10	109	109	70.0-130			0.741	25
Trichlorofluoromethane	3.75	4.04	4.06	108	108	70.0-130			0.421	25
1,1,2-Trichlorotrifluoroethane	3.75	4.05	4.09	108	109	70.0-130			0.975	25
1,1-Dichloroethene	3.75	4.00	4.03	107	108	70.0-130			0.707	25
1,1-Dichloroethane	3.75	3.99	4.01	106	107	70.0-130			0.379	25
Acetone	3.75	4.03	4.10	107	109	70.0-130			1.78	25
2-Propanol	3.75	4.06	4.10	108	109	70.0-139			0.802	25
Carbon disulfide	3.75	3.95	3.99	105	106	70.0-130			0.972	25
Methylene Chloride	3.75	3.77	3.80	101	101	70.0-130			0.685	25
MTBE	3.75	3.98	4.02	106	107	70.0-130			0.928	25
trans-1,2-Dichloroethene	3.75	4.05	4.06	108	108	70.0-130			0.317	25
n-Hexane	3.75	3.99	4.00	106	107	70.0-130			0.165	25
Vinyl acetate	3.75	4.18	4.18	111	111	70.0-130			0.0121	25
Methyl Ethyl Ketone	3.75	4.06	4.06	108	108	70.0-130			0.141	25
cis-1,2-Dichloroethene	3.75	4.00	4.01	107	107	70.0-130			0.151	25
Chloroform	3.75	3.94	3.94	105	105	70.0-130			0.0613	25
Cyclohexane	3.75	3.97	4.00	106	107	70.0-130			0.766	25
1,1,1-Trichloroethane	3.75	3.99	3.97	106	106	70.0-130			0.390	25
Carbon tetrachloride	3.75	4.01	4.01	107	107	70.0-130			0.0545	25
Benzene	3.75	3.94	3.96	105	105	70.0-130			0.384	25
1,2-Dichloroethane	3.75	4.00	3.97	107	106	70.0-130			0.599	25
Heptane	3.75	4.01	3.97	107	106	70.0-130			1.04	25
Trichloroethylene	3.75	3.92	3.91	105	104	70.0-130			0.257	25
1,2-Dichloropropane	3.75	3.94	3.89	105	104	70.0-130			1.09	25
1,4-Dioxane	3.75	4.07	4.03	109	108	70.0-140			1.02	25
Bromodichloromethane	3.75	3.98	3.98	106	106	70.0-130			0.0428	25
cis-1,3-Dichloropropene	3.75	4.06	4.07	108	109	70.0-130			0.302	25
4-Methyl-2-pentanone (MIBK)	3.75	4.14	4.14	110	110	70.0-139			0.0229	25
Toluene	3.75	4.00	3.99	107	106	70.0-130			0.364	25
trans-1,3-Dichloropropene	3.75	4.13	4.14	110	110	70.0-130			0.109	25
1,1,2-Trichloroethane	3.75	3.91	3.91	104	104	70.0-130			0.111	25
Tetrachloroethylene	3.75	3.91	3.89	104	104	70.0-130			0.554	25
Methyl Butyl Ketone	3.75	4.31	4.34	115	116	70.0-149			0.750	25
Dibromochloromethane	3.75	4.06	4.07	108	109	70.0-130			0.192	25
1,2-Dibromoethane	3.75	4.10	4.09	109	109	70.0-130			0.222	25
Chlorobenzene	3.75	4.05	4.04	108	108	70.0-130			0.346	25
Ethylbenzene	3.75	4.08	4.09	109	109	70.0-130			0.292	25

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) R3385279-1 02/19/19 10:32 • (LCSD) R3385279-2 02/19/19 11:16

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
m&p-Xylene	7.50	8.14	8.12	109	108	70.0-130			0.200	25
o-Xylene	3.75	4.05	4.07	108	109	70.0-130			0.482	25
Styrene	3.75	4.20	4.22	112	113	70.0-130			0.487	25
Bromoform	3.75	4.14	4.17	110	111	70.0-130			0.711	25
1,1,2,2-Tetrachloroethane	3.75	4.08	4.09	109	109	70.0-130			0.271	25
4-Ethyltoluene	3.75	4.20	4.20	112	112	70.0-130			0.109	25
1,3,5-Trimethylbenzene	3.75	4.18	4.20	111	112	70.0-130			0.627	25
1,2,4-Trimethylbenzene	3.75	4.20	4.22	112	113	70.0-130			0.562	25
1,3-Dichlorobenzene	3.75	4.21	4.25	112	113	70.0-130			0.938	25
1,4-Dichlorobenzene	3.75	4.34	4.37	116	117	70.0-130			0.668	25
Benzyl Chloride	3.75	4.45	4.50	119	120	70.0-152			1.29	25
1,2-Dichlorobenzene	3.75	4.17	4.20	111	112	70.0-130			0.625	25
1,2,4-Trichlorobenzene	3.75	4.01	4.08	107	109	70.0-160			1.83	25
Hexachloro-1,3-butadiene	3.75	4.04	4.05	108	108	70.0-151			0.310	25
Naphthalene	3.75	4.07	4.13	109	110	70.0-159			1.43	25
Allyl Chloride	3.75	3.98	4.04	106	108	70.0-130			1.39	25
2-Chlorotoluene	3.75	4.15	4.17	111	111	70.0-130			0.453	25
Methyl Methacrylate	3.75	4.03	4.05	108	108	70.0-130			0.355	25
Tetrahydrofuran	3.75	4.01	4.02	107	107	70.0-137			0.419	25
2,2,4-Trimethylpentane	3.75	4.04	4.05	108	108	70.0-130			0.106	25
Vinyl Bromide	3.75	3.98	4.03	106	108	70.0-130			1.38	25
Isopropylbenzene	3.75	4.10	4.11	109	110	70.0-130			0.235	25
(S) 1,4-Bromofluorobenzene				99.8	100	60.0-140				

1

Cp

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Tc

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Ss

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Sr

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Qc

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Gl

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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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
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, the sample preparation volume or weight values differ from the standard, 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.
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.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
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

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Pace National 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.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

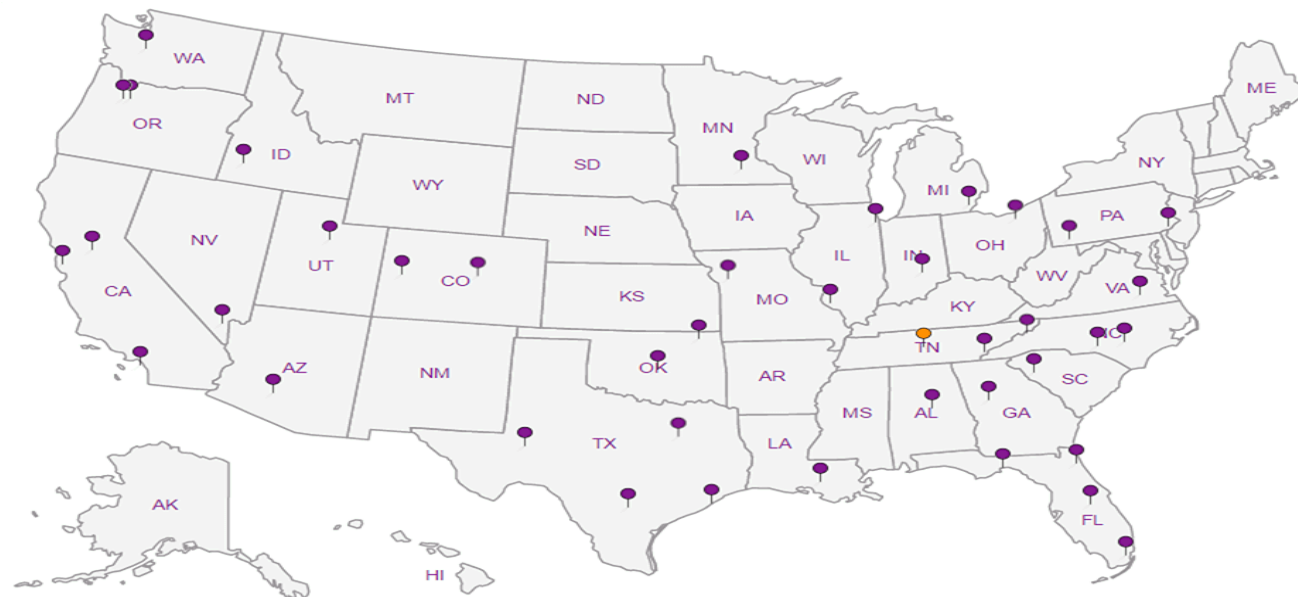
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National 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. Pace National performs all testing at our central laboratory.



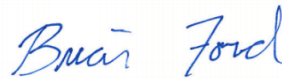
March 04, 2019

PES Environmental, Inc.- WA

Sample Delivery Group: L1072936
Samples Received: 02/23/2019
Project Number: 1413.001.05.501
Description: American Linen

Report To: Brian O'Neal/Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford
Project Manager

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 Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	6
Sr: Sample Results	7
B6D6-17 L1072936-01	7
B6D6-20 L1072936-02	9
B6D6-25 L1072936-03	11
B6D6-32 L1072936-04	13
B6D6-35 L1072936-05	15
B6D6-40 L1072936-06	17
B6D6-45 L1072936-07	19
B6D6-50 L1072936-08	21
B-933-50 L1072936-09	23
B10D10-15 L1072936-10	25
B10D10-20 L1072936-11	27
B10D10-25 L1072936-12	29
B10D10-30 L1072936-13	31
B10D10-35 L1072936-14	33
B10D10-40 L1072936-15	35
B10D10-45 L1072936-16	37
B10D10-50 L1072936-17	39
TB-022119 L1072936-18	41
Qc: Quality Control Summary	43
Total Solids by Method 2540 G-2011	43
Volatile Organic Compounds (GC/MS) by Method 8260C	46
Gl: Glossary of Terms	56
Al: Accreditations & Locations	57
Sc: Sample Chain of Custody	58



SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B6D6-17 L1072936-01 Solid

Collected by Rachel McLaughlin
Collected date/time 02/20/19 15:56
Received date/time 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1242106	1	02/26/19 14:06	02/26/19 14:18	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241792	1	02/20/19 15:56	02/25/19 13:09	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1244113	1	02/20/19 15:56	03/02/19 00:31	DWR	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

B6D6-20 L1072936-02 Solid

Collected by Rachel McLaughlin
Collected date/time 02/20/19 15:54
Received date/time 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1242107	1	02/27/19 16:12	02/27/19 16:21	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241792	1	02/20/19 15:54	02/25/19 13:28	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1244113	1	02/20/19 15:54	03/02/19 00:54	DWR	Mt. Juliet, TN

B6D6-25 L1072936-03 Solid

Collected by Rachel McLaughlin
Collected date/time 02/20/19 16:05
Received date/time 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1242107	1	02/27/19 16:12	02/27/19 16:21	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241792	1	02/20/19 16:05	02/25/19 13:47	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1244113	1	02/20/19 16:05	03/02/19 01:16	DWR	Mt. Juliet, TN

B6D6-32 L1072936-04 Solid

Collected by Rachel McLaughlin
Collected date/time 02/20/19 16:08
Received date/time 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1242107	1	02/27/19 16:12	02/27/19 16:21	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241792	1	02/20/19 16:08	02/25/19 14:07	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1244113	1	02/20/19 16:08	03/02/19 01:38	DWR	Mt. Juliet, TN

B6D6-35 L1072936-05 Solid

Collected by Rachel McLaughlin
Collected date/time 02/20/19 16:10
Received date/time 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1242107	1	02/27/19 16:12	02/27/19 16:21	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241792	1	02/20/19 16:10	02/25/19 14:27	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1244113	8	02/20/19 16:10	03/02/19 05:44	DWR	Mt. Juliet, TN

B6D6-40 L1072936-06 Solid

Collected by Rachel McLaughlin
Collected date/time 02/20/19 16:12
Received date/time 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1242107	1	02/27/19 16:12	02/27/19 16:21	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241792	1	02/20/19 16:12	02/25/19 14:47	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1244113	1	02/20/19 16:12	03/02/19 02:01	DWR	Mt. Juliet, TN

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B6D6-45 L1072936-07 Solid

Collected by Rachel McLaughlin
Collected date/time 02/20/19 16:55
Received date/time 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1242107	1	02/27/19 16:12	02/27/19 16:21	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241792	2	02/20/19 16:55	02/25/19 15:07	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1244113	2	02/20/19 16:55	03/02/19 02:23	DWR	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

B6D6-50 L1072936-08 Solid

Collected by Rachel McLaughlin
Collected date/time 02/20/19 17:00
Received date/time 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1242107	1	02/27/19 16:12	02/27/19 16:21	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241792	1	02/20/19 17:00	02/25/19 15:26	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1244113	1	02/20/19 17:00	03/02/19 02:45	DWR	Mt. Juliet, TN

B-933-50 L1072936-09 Solid

Collected by Rachel McLaughlin
Collected date/time 02/21/19 13:00
Received date/time 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1242107	1	02/27/19 16:12	02/27/19 16:21	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241792	1	02/21/19 13:00	02/25/19 15:46	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1244113	1	02/21/19 13:00	03/02/19 03:08	DWR	Mt. Juliet, TN

B10D10-15 L1072936-10 Solid

Collected by Rachel McLaughlin
Collected date/time 02/21/19 14:40
Received date/time 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1242107	1	02/27/19 16:12	02/27/19 16:21	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241792	1	02/21/19 14:40	02/25/19 16:06	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1244113	1	02/21/19 14:40	03/02/19 03:30	DWR	Mt. Juliet, TN

B10D10-20 L1072936-11 Solid

Collected by Rachel McLaughlin
Collected date/time 02/21/19 14:45
Received date/time 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1242107	1	02/27/19 16:12	02/27/19 16:21	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241792	1	02/21/19 14:45	02/25/19 16:25	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1244113	1	02/21/19 14:45	03/02/19 03:52	DWR	Mt. Juliet, TN

B10D10-25 L1072936-12 Solid

Collected by Rachel McLaughlin
Collected date/time 02/21/19 14:50
Received date/time 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1242109	1	02/27/19 15:50	02/27/19 16:04	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241792	1	02/21/19 14:50	02/25/19 16:45	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1244113	10	02/21/19 14:50	03/02/19 06:06	DWR	Mt. Juliet, TN

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B10D10-30 L1072936-13 Solid

Collected by Rachel McLaughlin
Collected date/time 02/21/19 14:53
Received date/time 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1242109	1	02/27/19 15:50	02/27/19 16:04	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241792	1	02/21/19 14:53	02/25/19 17:05	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1244113	20	02/21/19 14:53	03/02/19 06:28	DWR	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

B10D10-35 L1072936-14 Solid

Collected by Rachel McLaughlin
Collected date/time 02/21/19 14:55
Received date/time 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1242109	1	02/27/19 15:50	02/27/19 16:04	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241792	1	02/21/19 14:55	02/25/19 17:24	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1244113	1	02/21/19 14:55	03/02/19 04:14	DWR	Mt. Juliet, TN

B10D10-40 L1072936-15 Solid

Collected by Rachel McLaughlin
Collected date/time 02/20/19 14:58
Received date/time 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1242109	1	02/27/19 15:50	02/27/19 16:04	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241792	1	02/20/19 14:58	02/25/19 17:44	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1244113	1	02/20/19 14:58	03/02/19 04:37	DWR	Mt. Juliet, TN

B10D10-45 L1072936-16 Solid

Collected by Rachel McLaughlin
Collected date/time 02/20/19 15:55
Received date/time 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1242109	1	02/27/19 15:50	02/27/19 16:04	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241792	16.2	02/20/19 15:55	02/25/19 18:04	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1244113	10	02/20/19 15:55	03/02/19 04:59	DWR	Mt. Juliet, TN

B10D10-50 L1072936-17 Solid

Collected by Rachel McLaughlin
Collected date/time 02/20/19 16:00
Received date/time 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1242109	1	02/27/19 15:50	02/27/19 16:04	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241792	1	02/20/19 16:00	02/25/19 18:23	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1244113	1	02/20/19 16:00	03/02/19 05:21	DWR	Mt. Juliet, TN

TB-022119 L1072936-18 GW

Collected by Rachel McLaughlin
Collected date/time 02/21/19 17:00
Received date/time 02/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241720	1	02/25/19 10:38	02/25/19 10:38	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1241940	1	02/26/19 05:55	02/26/19 05:55	JHH	Mt. Juliet, TN



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, 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
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.0		1	02/26/2019 14:18	WG1242106

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0157	0.0287	1	02/25/2019 13:09	WG1241792
Acrylonitrile	U		0.00218	0.0144	1	02/25/2019 13:09	WG1241792
Benzene	U		0.000460	0.00115	1	02/25/2019 13:09	WG1241792
Bromobenzene	U		0.00121	0.0144	1	02/25/2019 13:09	WG1241792
Bromodichloromethane	U		0.000906	0.00287	1	02/25/2019 13:09	WG1241792
Bromochloromethane	U		0.00130	0.00575	1	02/25/2019 13:09	WG1241792
Bromoform	U		0.00687	0.0287	1	03/02/2019 00:31	WG1244113
Bromomethane	U	J4	0.00425	0.0144	1	02/25/2019 13:09	WG1241792
n-Butylbenzene	U		0.00441	0.0144	1	02/25/2019 13:09	WG1241792
sec-Butylbenzene	U		0.00291	0.0144	1	02/25/2019 13:09	WG1241792
tert-Butylbenzene	U		0.00178	0.00575	1	02/25/2019 13:09	WG1241792
Carbon disulfide	U		0.00467	0.0144	1	02/25/2019 13:09	WG1241792
Carbon tetrachloride	U		0.00124	0.00575	1	02/25/2019 13:09	WG1241792
Chlorobenzene	U		0.000659	0.00287	1	02/25/2019 13:09	WG1241792
Chlorodibromomethane	U		0.000517	0.00287	1	02/25/2019 13:09	WG1241792
Chloroethane	U		0.00124	0.00575	1	02/25/2019 13:09	WG1241792
Chloroform	U		0.000477	0.00287	1	02/25/2019 13:09	WG1241792
Chloromethane	U		0.00160	0.0144	1	02/25/2019 13:09	WG1241792
2-Chlorotoluene	U		0.00106	0.00287	1	02/25/2019 13:09	WG1241792
4-Chlorotoluene	U		0.00130	0.00575	1	02/25/2019 13:09	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00586	0.0287	1	02/25/2019 13:09	WG1241792
1,2-Dibromoethane	U		0.000604	0.00287	1	02/25/2019 13:09	WG1241792
Dibromomethane	U		0.00115	0.00575	1	02/25/2019 13:09	WG1241792
1,2-Dichlorobenzene	U		0.00167	0.00575	1	02/25/2019 13:09	WG1241792
1,3-Dichlorobenzene	U		0.00195	0.00575	1	02/25/2019 13:09	WG1241792
1,4-Dichlorobenzene	U		0.00226	0.00575	1	02/25/2019 13:09	WG1241792
Dichlorodifluoromethane	U		0.000940	0.00287	1	02/25/2019 13:09	WG1241792
1,1-Dichloroethane	U		0.000661	0.00287	1	02/25/2019 13:09	WG1241792
1,2-Dichloroethane	U		0.000546	0.00287	1	03/02/2019 00:31	WG1244113
1,1-Dichloroethene	U		0.000575	0.00287	1	02/25/2019 13:09	WG1241792
cis-1,2-Dichloroethene	0.00388		0.000793	0.00287	1	02/25/2019 13:09	WG1241792
trans-1,2-Dichloroethene	U		0.00164	0.00575	1	02/25/2019 13:09	WG1241792
1,2-Dichloropropane	U		0.00146	0.00575	1	02/25/2019 13:09	WG1241792
1,1-Dichloropropene	U		0.000805	0.00287	1	02/25/2019 13:09	WG1241792
1,3-Dichloropropane	U		0.00201	0.00575	1	02/25/2019 13:09	WG1241792
cis-1,3-Dichloropropene	U		0.000779	0.00287	1	02/25/2019 13:09	WG1241792
trans-1,3-Dichloropropene	U		0.00176	0.00575	1	02/25/2019 13:09	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00161	0.00575	1	02/25/2019 13:09	WG1241792
2,2-Dichloropropane	U		0.000912	0.00287	1	02/25/2019 13:09	WG1241792
Di-isopropyl ether	U		0.000402	0.00115	1	02/25/2019 13:09	WG1241792
Ethylbenzene	U		0.000609	0.00287	1	02/25/2019 13:09	WG1241792
Hexachloro-1,3-butadiene	U		0.0146	0.0287	1	02/25/2019 13:09	WG1241792
2-Hexanone	U		0.0115	0.0287	1	02/25/2019 13:09	WG1241792
n-Hexane	0.00214	B J	0.00122	0.00575	1	02/25/2019 13:09	WG1241792
Iodomethane	U		0.00696	0.0144	1	02/25/2019 13:09	WG1241792
Isopropylbenzene	U		0.000992	0.00287	1	02/25/2019 13:09	WG1241792
p-Isopropyltoluene	U		0.00268	0.00575	1	02/25/2019 13:09	WG1241792
2-Butanone (MEK)	U		0.0144	0.0287	1	02/25/2019 13:09	WG1241792
Methylene Chloride	U		0.00763	0.0287	1	02/25/2019 13:09	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0287	1	02/25/2019 13:09	WG1241792

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/20/19 15:56

L1072936

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

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	0.000339	0.00115	1	02/25/2019 13:09	WG1241792
Naphthalene	U		0.00359	0.0144	1	02/25/2019 13:09	WG1241792
n-Propylbenzene	U		0.00136	0.00575	1	02/25/2019 13:09	WG1241792
Styrene	U	J4	0.00314	0.0144	1	02/25/2019 13:09	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000575	0.00287	1	02/25/2019 13:09	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000448	0.00287	1	02/25/2019 13:09	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000776	0.00287	1	02/25/2019 13:09	WG1241792
Tetrachloroethene	0.00641		0.000805	0.00287	1	02/25/2019 13:09	WG1241792
Toluene	0.00146	J	0.00144	0.00575	1	02/25/2019 13:09	WG1241792
1,2,3-Trichlorobenzene	U		0.000719	0.00287	1	02/25/2019 13:09	WG1241792
1,2,4-Trichlorobenzene	U		0.00554	0.0144	1	02/25/2019 13:09	WG1241792
1,1,1-Trichloroethane	U		0.000316	0.00287	1	02/25/2019 13:09	WG1241792
1,1,2-Trichloroethane	U		0.00102	0.00287	1	02/25/2019 13:09	WG1241792
Trichloroethene	0.00629		0.000460	0.00115	1	02/25/2019 13:09	WG1241792
Trichlorofluoromethane	U		0.000575	0.00287	1	02/25/2019 13:09	WG1241792
1,2,3-Trichloropropane	U		0.00586	0.0144	1	02/25/2019 13:09	WG1241792
1,2,4-Trimethylbenzene	U		0.00133	0.00575	1	02/25/2019 13:09	WG1241792
1,2,3-Trimethylbenzene	U		0.00132	0.00575	1	02/25/2019 13:09	WG1241792
1,3,5-Trimethylbenzene	U		0.00124	0.00575	1	02/25/2019 13:09	WG1241792
Vinyl acetate	U		0.00405	0.0144	1	02/25/2019 13:09	WG1241792
Vinyl chloride	U		0.000785	0.00287	1	02/25/2019 13:09	WG1241792
Xylenes, Total	U		0.00550	0.00747	1	02/25/2019 13:09	WG1241792
(S) Toluene-d8	99.1			75.0-131		02/25/2019 13:09	WG1241792
(S) Toluene-d8	101			75.0-131		03/02/2019 00:31	WG1244113
(S) 4-Bromofluorobenzene	90.6			67.0-138		02/25/2019 13:09	WG1241792
(S) 4-Bromofluorobenzene	93.7			67.0-138		03/02/2019 00:31	WG1244113
(S) 1,2-Dichloroethane-d4	98.9			70.0-130		02/25/2019 13:09	WG1241792
(S) 1,2-Dichloroethane-d4	84.4			70.0-130		03/02/2019 00:31	WG1244113

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	02/27/2019 16:21	WG1242107

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0159	0.0290	1	02/25/2019 13:28	WG1241792
Acrylonitrile	U		0.00221	0.0145	1	02/25/2019 13:28	WG1241792
Benzene	U		0.000465	0.00116	1	02/25/2019 13:28	WG1241792
Bromobenzene	U		0.00122	0.0145	1	02/25/2019 13:28	WG1241792
Bromodichloromethane	U		0.000915	0.00290	1	02/25/2019 13:28	WG1241792
Bromochloromethane	U		0.00131	0.00581	1	02/25/2019 13:28	WG1241792
Bromoform	U		0.00694	0.0290	1	03/02/2019 00:54	WG1244113
Bromomethane	U	J4	0.00430	0.0145	1	02/25/2019 13:28	WG1241792
n-Butylbenzene	U		0.00446	0.0145	1	02/25/2019 13:28	WG1241792
sec-Butylbenzene	U		0.00294	0.0145	1	02/25/2019 13:28	WG1241792
tert-Butylbenzene	U		0.00180	0.00581	1	02/25/2019 13:28	WG1241792
Carbon disulfide	U		0.00471	0.0145	1	02/25/2019 13:28	WG1241792
Carbon tetrachloride	U		0.00125	0.00581	1	02/25/2019 13:28	WG1241792
Chlorobenzene	U		0.000665	0.00290	1	02/25/2019 13:28	WG1241792
Chlorodibromomethane	U		0.000523	0.00290	1	02/25/2019 13:28	WG1241792
Chloroethane	U		0.00125	0.00581	1	02/25/2019 13:28	WG1241792
Chloroform	U		0.000482	0.00290	1	02/25/2019 13:28	WG1241792
Chloromethane	U		0.00161	0.0145	1	02/25/2019 13:28	WG1241792
2-Chlorotoluene	U		0.00107	0.00290	1	02/25/2019 13:28	WG1241792
4-Chlorotoluene	U		0.00131	0.00581	1	02/25/2019 13:28	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00592	0.0290	1	02/25/2019 13:28	WG1241792
1,2-Dibromoethane	U		0.000610	0.00290	1	02/25/2019 13:28	WG1241792
Dibromomethane	U		0.00116	0.00581	1	02/25/2019 13:28	WG1241792
1,2-Dichlorobenzene	U		0.00168	0.00581	1	02/25/2019 13:28	WG1241792
1,3-Dichlorobenzene	U		0.00197	0.00581	1	02/25/2019 13:28	WG1241792
1,4-Dichlorobenzene	U		0.00229	0.00581	1	02/25/2019 13:28	WG1241792
Dichlorodifluoromethane	U		0.000950	0.00290	1	02/25/2019 13:28	WG1241792
1,1-Dichloroethane	U		0.000668	0.00290	1	02/25/2019 13:28	WG1241792
1,2-Dichloroethane	U		0.000552	0.00290	1	03/02/2019 00:54	WG1244113
1,1-Dichloroethene	U		0.000581	0.00290	1	02/25/2019 13:28	WG1241792
cis-1,2-Dichloroethene	0.0233		0.000801	0.00290	1	02/25/2019 13:28	WG1241792
trans-1,2-Dichloroethene	U		0.00166	0.00581	1	02/25/2019 13:28	WG1241792
1,2-Dichloropropane	U		0.00147	0.00581	1	02/25/2019 13:28	WG1241792
1,1-Dichloropropene	U		0.000813	0.00290	1	02/25/2019 13:28	WG1241792
1,3-Dichloropropane	U		0.00203	0.00581	1	02/25/2019 13:28	WG1241792
cis-1,3-Dichloropropene	U		0.000787	0.00290	1	02/25/2019 13:28	WG1241792
trans-1,3-Dichloropropene	U		0.00178	0.00581	1	02/25/2019 13:28	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00163	0.00581	1	02/25/2019 13:28	WG1241792
2,2-Dichloropropane	U		0.000921	0.00290	1	02/25/2019 13:28	WG1241792
Di-isopropyl ether	U		0.000406	0.00116	1	02/25/2019 13:28	WG1241792
Ethylbenzene	U		0.000615	0.00290	1	02/25/2019 13:28	WG1241792
Hexachloro-1,3-butadiene	U		0.0147	0.0290	1	02/25/2019 13:28	WG1241792
2-Hexanone	U		0.0116	0.0290	1	02/25/2019 13:28	WG1241792
n-Hexane	U		0.00123	0.00581	1	02/25/2019 13:28	WG1241792
Iodomethane	U		0.00703	0.0145	1	02/25/2019 13:28	WG1241792
Isopropylbenzene	U		0.00100	0.00290	1	02/25/2019 13:28	WG1241792
p-Isopropyltoluene	U		0.00271	0.00581	1	02/25/2019 13:28	WG1241792
2-Butanone (MEK)	U		0.0145	0.0290	1	02/25/2019 13:28	WG1241792
Methylene Chloride	U		0.00771	0.0290	1	02/25/2019 13:28	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1	02/25/2019 13:28	WG1241792

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/20/19 15:54

L1072936

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

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	0.000343	0.00116	1	02/25/2019 13:28	WG1241792
Naphthalene	U		0.00362	0.0145	1	02/25/2019 13:28	WG1241792
n-Propylbenzene	U		0.00137	0.00581	1	02/25/2019 13:28	WG1241792
Styrene	U	J4	0.00317	0.0145	1	02/25/2019 13:28	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000581	0.00290	1	02/25/2019 13:28	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000453	0.00290	1	02/25/2019 13:28	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000784	0.00290	1	02/25/2019 13:28	WG1241792
Tetrachloroethene	0.00154	LJ	0.000813	0.00290	1	02/25/2019 13:28	WG1241792
Toluene	0.00201	LJ	0.00145	0.00581	1	02/25/2019 13:28	WG1241792
1,2,3-Trichlorobenzene	U		0.000726	0.00290	1	02/25/2019 13:28	WG1241792
1,2,4-Trichlorobenzene	U		0.00560	0.0145	1	02/25/2019 13:28	WG1241792
1,1,1-Trichloroethane	U		0.000319	0.00290	1	02/25/2019 13:28	WG1241792
1,1,2-Trichloroethane	U		0.00103	0.00290	1	02/25/2019 13:28	WG1241792
Trichloroethene	0.00333		0.000465	0.00116	1	02/25/2019 13:28	WG1241792
Trichlorofluoromethane	U		0.000581	0.00290	1	02/25/2019 13:28	WG1241792
1,2,3-Trichloropropane	U		0.00592	0.0145	1	02/25/2019 13:28	WG1241792
1,2,4-Trimethylbenzene	U		0.00135	0.00581	1	02/25/2019 13:28	WG1241792
1,2,3-Trimethylbenzene	U		0.00134	0.00581	1	02/25/2019 13:28	WG1241792
1,3,5-Trimethylbenzene	U		0.00125	0.00581	1	02/25/2019 13:28	WG1241792
Vinyl acetate	U		0.00409	0.0145	1	02/25/2019 13:28	WG1241792
Vinyl chloride	U		0.000793	0.00290	1	02/25/2019 13:28	WG1241792
Xylenes, Total	U		0.00555	0.00755	1	02/25/2019 13:28	WG1241792
(S) Toluene-d8	100			75.0-131		02/25/2019 13:28	WG1241792
(S) Toluene-d8	100			75.0-131		03/02/2019 00:54	WG1244113
(S) 4-Bromofluorobenzene	92.7			67.0-138		02/25/2019 13:28	WG1241792
(S) 4-Bromofluorobenzene	96.8			67.0-138		03/02/2019 00:54	WG1244113
(S) 1,2-Dichloroethane-d4	98.0			70.0-130		02/25/2019 13:28	WG1241792
(S) 1,2-Dichloroethane-d4	85.3			70.0-130		03/02/2019 00:54	WG1244113

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	84.0		1	02/27/2019 16:21	WG1242107

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0163	0.0298	1	02/25/2019 13:47	WG1241792
Acrylonitrile	U		0.00226	0.0149	1	02/25/2019 13:47	WG1241792
Benzene	U		0.000476	0.00119	1	02/25/2019 13:47	WG1241792
Bromobenzene	U		0.00125	0.0149	1	02/25/2019 13:47	WG1241792
Bromodichloromethane	U		0.000938	0.00298	1	02/25/2019 13:47	WG1241792
Bromochloromethane	U		0.00134	0.00595	1	02/25/2019 13:47	WG1241792
Bromoform	U		0.00712	0.0298	1	03/02/2019 01:16	WG1244113
Bromomethane	U	J4	0.00440	0.0149	1	02/25/2019 13:47	WG1241792
n-Butylbenzene	U		0.00457	0.0149	1	02/25/2019 13:47	WG1241792
sec-Butylbenzene	U		0.00301	0.0149	1	02/25/2019 13:47	WG1241792
tert-Butylbenzene	U		0.00184	0.00595	1	02/25/2019 13:47	WG1241792
Carbon disulfide	U		0.00483	0.0149	1	02/25/2019 13:47	WG1241792
Carbon tetrachloride	U		0.00129	0.00595	1	02/25/2019 13:47	WG1241792
Chlorobenzene	U		0.000682	0.00298	1	02/25/2019 13:47	WG1241792
Chlorodibromomethane	U		0.000536	0.00298	1	02/25/2019 13:47	WG1241792
Chloroethane	U		0.00129	0.00595	1	02/25/2019 13:47	WG1241792
Chloroform	U		0.000494	0.00298	1	02/25/2019 13:47	WG1241792
Chloromethane	U		0.00165	0.0149	1	02/25/2019 13:47	WG1241792
2-Chlorotoluene	U		0.00109	0.00298	1	02/25/2019 13:47	WG1241792
4-Chlorotoluene	U		0.00134	0.00595	1	02/25/2019 13:47	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00607	0.0298	1	02/25/2019 13:47	WG1241792
1,2-Dibromoethane	U		0.000625	0.00298	1	02/25/2019 13:47	WG1241792
Dibromomethane	U		0.00119	0.00595	1	02/25/2019 13:47	WG1241792
1,2-Dichlorobenzene	U		0.00173	0.00595	1	02/25/2019 13:47	WG1241792
1,3-Dichlorobenzene	U		0.00202	0.00595	1	02/25/2019 13:47	WG1241792
1,4-Dichlorobenzene	U		0.00234	0.00595	1	02/25/2019 13:47	WG1241792
Dichlorodifluoromethane	U		0.000974	0.00298	1	02/25/2019 13:47	WG1241792
1,1-Dichloroethane	U		0.000684	0.00298	1	02/25/2019 13:47	WG1241792
1,2-Dichloroethane	U		0.000565	0.00298	1	03/02/2019 01:16	WG1244113
1,1-Dichloroethene	U		0.000595	0.00298	1	02/25/2019 13:47	WG1241792
cis-1,2-Dichloroethene	0.0372		0.000821	0.00298	1	02/25/2019 13:47	WG1241792
trans-1,2-Dichloroethene	U		0.00170	0.00595	1	02/25/2019 13:47	WG1241792
1,2-Dichloropropane	U		0.00151	0.00595	1	02/25/2019 13:47	WG1241792
1,1-Dichloropropene	U		0.000833	0.00298	1	02/25/2019 13:47	WG1241792
1,3-Dichloropropane	U		0.00208	0.00595	1	02/25/2019 13:47	WG1241792
cis-1,3-Dichloropropene	U		0.000807	0.00298	1	02/25/2019 13:47	WG1241792
trans-1,3-Dichloropropene	U		0.00182	0.00595	1	02/25/2019 13:47	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00167	0.00595	1	02/25/2019 13:47	WG1241792
2,2-Dichloropropane	U		0.000944	0.00298	1	02/25/2019 13:47	WG1241792
Di-isopropyl ether	U		0.000417	0.00119	1	02/25/2019 13:47	WG1241792
Ethylbenzene	U		0.000631	0.00298	1	02/25/2019 13:47	WG1241792
Hexachloro-1,3-butadiene	U		0.0151	0.0298	1	02/25/2019 13:47	WG1241792
2-Hexanone	U		0.0119	0.0298	1	02/25/2019 13:47	WG1241792
n-Hexane	U		0.00126	0.00595	1	02/25/2019 13:47	WG1241792
Iodomethane	U		0.00720	0.0149	1	02/25/2019 13:47	WG1241792
Isopropylbenzene	U		0.00103	0.00298	1	02/25/2019 13:47	WG1241792
p-Isopropyltoluene	U		0.00277	0.00595	1	02/25/2019 13:47	WG1241792
2-Butanone (MEK)	U		0.0149	0.0298	1	02/25/2019 13:47	WG1241792
Methylene Chloride	U		0.00790	0.0298	1	02/25/2019 13:47	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0298	1	02/25/2019 13:47	WG1241792

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/20/19 16:05

L1072936

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U	<u>J0</u>	0.000351	0.00119	1	02/25/2019 13:47	WG1241792
Naphthalene	U		0.00371	0.0149	1	02/25/2019 13:47	WG1241792
n-Propylbenzene	U		0.00140	0.00595	1	02/25/2019 13:47	WG1241792
Styrene	U	<u>J4</u>	0.00325	0.0149	1	02/25/2019 13:47	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000595	0.00298	1	02/25/2019 13:47	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000464	0.00298	1	02/25/2019 13:47	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000803	0.00298	1	02/25/2019 13:47	WG1241792
Tetrachloroethene	0.00806		0.000833	0.00298	1	02/25/2019 13:47	WG1241792
Toluene	U		0.00149	0.00595	1	02/25/2019 13:47	WG1241792
1,2,3-Trichlorobenzene	U		0.000744	0.00298	1	02/25/2019 13:47	WG1241792
1,2,4-Trichlorobenzene	U		0.00574	0.0149	1	02/25/2019 13:47	WG1241792
1,1,1-Trichloroethane	U		0.000327	0.00298	1	02/25/2019 13:47	WG1241792
1,1,2-Trichloroethane	U		0.00105	0.00298	1	02/25/2019 13:47	WG1241792
Trichloroethene	0.00229		0.000476	0.00119	1	02/25/2019 13:47	WG1241792
Trichlorofluoromethane	U		0.000595	0.00298	1	02/25/2019 13:47	WG1241792
1,2,3-Trichloropropane	U		0.00607	0.0149	1	02/25/2019 13:47	WG1241792
1,2,4-Trimethylbenzene	U		0.00138	0.00595	1	02/25/2019 13:47	WG1241792
1,2,3-Trimethylbenzene	U		0.00137	0.00595	1	02/25/2019 13:47	WG1241792
1,3,5-Trimethylbenzene	U		0.00129	0.00595	1	02/25/2019 13:47	WG1241792
Vinyl acetate	U		0.00419	0.0149	1	02/25/2019 13:47	WG1241792
Vinyl chloride	U		0.000813	0.00298	1	02/25/2019 13:47	WG1241792
Xylenes, Total	U		0.00569	0.00774	1	02/25/2019 13:47	WG1241792
(S) Toluene-d8	99.5			75.0-131		02/25/2019 13:47	WG1241792
(S) Toluene-d8	101			75.0-131		03/02/2019 01:16	WG1244113
(S) 4-Bromofluorobenzene	89.4			67.0-138		02/25/2019 13:47	WG1241792
(S) 4-Bromofluorobenzene	100			67.0-138		03/02/2019 01:16	WG1244113
(S) 1,2-Dichloroethane-d4	95.6			70.0-130		02/25/2019 13:47	WG1241792
(S) 1,2-Dichloroethane-d4	85.7			70.0-130		03/02/2019 01:16	WG1244113

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/20/19 16:08

L1072936

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.0		1	02/27/2019 16:21	WG1242107

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0165	0.0301	1	02/25/2019 14:07	WG1241792
Acrylonitrile	U		0.00229	0.0151	1	02/25/2019 14:07	WG1241792
Benzene	U		0.000482	0.00120	1	02/25/2019 14:07	WG1241792
Bromobenzene	U		0.00126	0.0151	1	02/25/2019 14:07	WG1241792
Bromodichloromethane	U		0.000949	0.00301	1	02/25/2019 14:07	WG1241792
Bromochloromethane	U		0.00136	0.00602	1	02/25/2019 14:07	WG1241792
Bromoform	U		0.00720	0.0301	1	03/02/2019 01:38	WG1244113
Bromomethane	U	J4	0.00446	0.0151	1	02/25/2019 14:07	WG1241792
n-Butylbenzene	U		0.00463	0.0151	1	02/25/2019 14:07	WG1241792
sec-Butylbenzene	U		0.00305	0.0151	1	02/25/2019 14:07	WG1241792
tert-Butylbenzene	U		0.00187	0.00602	1	02/25/2019 14:07	WG1241792
Carbon disulfide	U		0.00489	0.0151	1	02/25/2019 14:07	WG1241792
Carbon tetrachloride	U		0.00130	0.00602	1	02/25/2019 14:07	WG1241792
Chlorobenzene	U		0.000690	0.00301	1	02/25/2019 14:07	WG1241792
Chlorodibromomethane	U		0.000542	0.00301	1	02/25/2019 14:07	WG1241792
Chloroethane	U		0.00130	0.00602	1	02/25/2019 14:07	WG1241792
Chloroform	U		0.000500	0.00301	1	02/25/2019 14:07	WG1241792
Chloromethane	U		0.00167	0.0151	1	02/25/2019 14:07	WG1241792
2-Chlorotoluene	U		0.00111	0.00301	1	02/25/2019 14:07	WG1241792
4-Chlorotoluene	U		0.00136	0.00602	1	02/25/2019 14:07	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00614	0.0301	1	02/25/2019 14:07	WG1241792
1,2-Dibromoethane	U		0.000632	0.00301	1	02/25/2019 14:07	WG1241792
Dibromomethane	U		0.00120	0.00602	1	02/25/2019 14:07	WG1241792
1,2-Dichlorobenzene	U		0.00175	0.00602	1	02/25/2019 14:07	WG1241792
1,3-Dichlorobenzene	U		0.00205	0.00602	1	02/25/2019 14:07	WG1241792
1,4-Dichlorobenzene	U		0.00237	0.00602	1	02/25/2019 14:07	WG1241792
Dichlorodifluoromethane	U		0.000985	0.00301	1	02/25/2019 14:07	WG1241792
1,1-Dichloroethane	U		0.000693	0.00301	1	02/25/2019 14:07	WG1241792
1,2-Dichloroethane	U		0.000572	0.00301	1	03/02/2019 01:38	WG1244113
1,1-Dichloroethene	0.00190	J	0.000602	0.00301	1	02/25/2019 14:07	WG1241792
cis-1,2-Dichloroethene	0.402		0.000831	0.00301	1	02/25/2019 14:07	WG1241792
trans-1,2-Dichloroethene	0.00889		0.00172	0.00602	1	02/25/2019 14:07	WG1241792
1,2-Dichloropropane	U		0.00153	0.00602	1	02/25/2019 14:07	WG1241792
1,1-Dichloropropene	U		0.000843	0.00301	1	02/25/2019 14:07	WG1241792
1,3-Dichloropropane	U		0.00211	0.00602	1	02/25/2019 14:07	WG1241792
cis-1,3-Dichloropropene	U		0.000817	0.00301	1	02/25/2019 14:07	WG1241792
trans-1,3-Dichloropropene	U		0.00184	0.00602	1	02/25/2019 14:07	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00169	0.00602	1	02/25/2019 14:07	WG1241792
2,2-Dichloropropane	U		0.000955	0.00301	1	02/25/2019 14:07	WG1241792
Di-isopropyl ether	U		0.000422	0.00120	1	02/25/2019 14:07	WG1241792
Ethylbenzene	U		0.000638	0.00301	1	02/25/2019 14:07	WG1241792
Hexachloro-1,3-butadiene	U		0.0153	0.0301	1	02/25/2019 14:07	WG1241792
2-Hexanone	U		0.0120	0.0301	1	02/25/2019 14:07	WG1241792
n-Hexane	0.00133	B J	0.00128	0.00602	1	02/25/2019 14:07	WG1241792
Iodomethane	U		0.00729	0.0151	1	02/25/2019 14:07	WG1241792
Isopropylbenzene	U		0.00104	0.00301	1	02/25/2019 14:07	WG1241792
p-Isopropyltoluene	U		0.00281	0.00602	1	02/25/2019 14:07	WG1241792
2-Butanone (MEK)	U		0.0151	0.0301	1	02/25/2019 14:07	WG1241792
Methylene Chloride	U		0.00800	0.0301	1	02/25/2019 14:07	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0301	1	02/25/2019 14:07	WG1241792

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/20/19 16:08

L1072936

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U	<u>J0</u>	0.000355	0.00120	1	02/25/2019 14:07	WG1241792
Naphthalene	U		0.00376	0.0151	1	02/25/2019 14:07	WG1241792
n-Propylbenzene	U		0.00142	0.00602	1	02/25/2019 14:07	WG1241792
Styrene	U	<u>J4</u>	0.00329	0.0151	1	02/25/2019 14:07	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000602	0.00301	1	02/25/2019 14:07	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000470	0.00301	1	02/25/2019 14:07	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000813	0.00301	1	02/25/2019 14:07	WG1241792
Tetrachloroethene	0.441		0.000843	0.00301	1	02/25/2019 14:07	WG1241792
Toluene	U		0.00151	0.00602	1	02/25/2019 14:07	WG1241792
1,2,3-Trichlorobenzene	U		0.000753	0.00301	1	02/25/2019 14:07	WG1241792
1,2,4-Trichlorobenzene	U		0.00581	0.0151	1	02/25/2019 14:07	WG1241792
1,1,1-Trichloroethane	U		0.000331	0.00301	1	02/25/2019 14:07	WG1241792
1,1,2-Trichloroethane	U		0.00106	0.00301	1	02/25/2019 14:07	WG1241792
Trichloroethene	0.147		0.000482	0.00120	1	02/25/2019 14:07	WG1241792
Trichlorofluoromethane	U		0.000602	0.00301	1	02/25/2019 14:07	WG1241792
1,2,3-Trichloropropane	U		0.00614	0.0151	1	02/25/2019 14:07	WG1241792
1,2,4-Trimethylbenzene	U		0.00140	0.00602	1	02/25/2019 14:07	WG1241792
1,2,3-Trimethylbenzene	U		0.00139	0.00602	1	02/25/2019 14:07	WG1241792
1,3,5-Trimethylbenzene	U		0.00130	0.00602	1	02/25/2019 14:07	WG1241792
Vinyl acetate	U		0.00424	0.0151	1	02/25/2019 14:07	WG1241792
Vinyl chloride	U		0.000823	0.00301	1	02/25/2019 14:07	WG1241792
Xylenes, Total	U		0.00576	0.00783	1	02/25/2019 14:07	WG1241792
(S) Toluene-d8	100			75.0-131		02/25/2019 14:07	WG1241792
(S) Toluene-d8	102			75.0-131		03/02/2019 01:38	WG1244113
(S) 4-Bromofluorobenzene	93.3			67.0-138		02/25/2019 14:07	WG1241792
(S) 4-Bromofluorobenzene	97.4			67.0-138		03/02/2019 01:38	WG1244113
(S) 1,2-Dichloroethane-d4	97.7			70.0-130		02/25/2019 14:07	WG1241792
(S) 1,2-Dichloroethane-d4	86.1			70.0-130		03/02/2019 01:38	WG1244113

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	92.1		1	02/27/2019 16:21	WG1242107

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0149	0.0271	1	02/25/2019 14:27	WG1241792
Acrylonitrile	U		0.00206	0.0136	1	02/25/2019 14:27	WG1241792
Benzene	0.000453	J	0.000434	0.00109	1	02/25/2019 14:27	WG1241792
Bromobenzene	U		0.00114	0.0136	1	02/25/2019 14:27	WG1241792
Bromodichloromethane	U		0.000855	0.00271	1	02/25/2019 14:27	WG1241792
Bromochloromethane	U		0.00123	0.00543	1	02/25/2019 14:27	WG1241792
Bromoform	U		0.0519	0.217	8	03/02/2019 05:44	WG1244113
Bromomethane	U	J4	0.00402	0.0136	1	02/25/2019 14:27	WG1241792
n-Butylbenzene	U		0.00417	0.0136	1	02/25/2019 14:27	WG1241792
sec-Butylbenzene	U		0.00275	0.0136	1	02/25/2019 14:27	WG1241792
tert-Butylbenzene	U		0.00168	0.00543	1	02/25/2019 14:27	WG1241792
Carbon disulfide	U		0.00441	0.0136	1	02/25/2019 14:27	WG1241792
Carbon tetrachloride	U		0.00117	0.00543	1	02/25/2019 14:27	WG1241792
Chlorobenzene	U		0.000622	0.00271	1	02/25/2019 14:27	WG1241792
Chlorodibromomethane	U		0.000489	0.00271	1	02/25/2019 14:27	WG1241792
Chloroethane	U		0.00117	0.00543	1	02/25/2019 14:27	WG1241792
Chloroform	U		0.000451	0.00271	1	02/25/2019 14:27	WG1241792
Chloromethane	U		0.00151	0.0136	1	02/25/2019 14:27	WG1241792
2-Chlorotoluene	U		0.000999	0.00271	1	02/25/2019 14:27	WG1241792
4-Chlorotoluene	U		0.00123	0.00543	1	02/25/2019 14:27	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00554	0.0271	1	02/25/2019 14:27	WG1241792
1,2-Dibromoethane	U		0.000570	0.00271	1	02/25/2019 14:27	WG1241792
Dibromomethane	U		0.00109	0.00543	1	02/25/2019 14:27	WG1241792
1,2-Dichlorobenzene	U		0.00157	0.00543	1	02/25/2019 14:27	WG1241792
1,3-Dichlorobenzene	U		0.00185	0.00543	1	02/25/2019 14:27	WG1241792
1,4-Dichlorobenzene	U		0.00214	0.00543	1	02/25/2019 14:27	WG1241792
Dichlorodifluoromethane	U		0.000888	0.00271	1	02/25/2019 14:27	WG1241792
1,1-Dichloroethane	U		0.000624	0.00271	1	02/25/2019 14:27	WG1241792
1,2-Dichloroethane	U		0.00413	0.0217	8	03/02/2019 05:44	WG1244113
1,1-Dichloroethene	0.00535		0.000543	0.00271	1	02/25/2019 14:27	WG1241792
cis-1,2-Dichloroethene	0.420		0.00599	0.0217	8	03/02/2019 05:44	WG1244113
trans-1,2-Dichloroethene	0.0293		0.00155	0.00543	1	02/25/2019 14:27	WG1241792
1,2-Dichloropropane	U		0.00138	0.00543	1	02/25/2019 14:27	WG1241792
1,1-Dichloropropene	U		0.000760	0.00271	1	02/25/2019 14:27	WG1241792
1,3-Dichloropropane	U		0.00190	0.00543	1	02/25/2019 14:27	WG1241792
cis-1,3-Dichloropropene	U		0.000736	0.00271	1	02/25/2019 14:27	WG1241792
trans-1,3-Dichloropropene	U		0.00166	0.00543	1	02/25/2019 14:27	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00152	0.00543	1	02/25/2019 14:27	WG1241792
2,2-Dichloropropane	U		0.000861	0.00271	1	02/25/2019 14:27	WG1241792
Di-isopropyl ether	U		0.000380	0.00109	1	02/25/2019 14:27	WG1241792
Ethylbenzene	U		0.000575	0.00271	1	02/25/2019 14:27	WG1241792
Hexachloro-1,3-butadiene	U		0.0138	0.0271	1	02/25/2019 14:27	WG1241792
2-Hexanone	U		0.0109	0.0271	1	02/25/2019 14:27	WG1241792
n-Hexane	0.00276	B J	0.00115	0.00543	1	02/25/2019 14:27	WG1241792
Iodomethane	U		0.00657	0.0136	1	02/25/2019 14:27	WG1241792
Isopropylbenzene	U		0.000937	0.00271	1	02/25/2019 14:27	WG1241792
p-Isopropyltoluene	U		0.00253	0.00543	1	02/25/2019 14:27	WG1241792
2-Butanone (MEK)	U		0.0136	0.0271	1	02/25/2019 14:27	WG1241792
Methylene Chloride	U		0.00721	0.0271	1	02/25/2019 14:27	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0271	1	02/25/2019 14:27	WG1241792

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/20/19 16:10

L1072936

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

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	0.000320	0.00109	1	02/25/2019 14:27	WG1241792
Naphthalene	U		0.00339	0.0136	1	02/25/2019 14:27	WG1241792
n-Propylbenzene	U		0.00128	0.00543	1	02/25/2019 14:27	WG1241792
Styrene	U	J4	0.00296	0.0136	1	02/25/2019 14:27	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000543	0.00271	1	02/25/2019 14:27	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000423	0.00271	1	02/25/2019 14:27	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000733	0.00271	1	02/25/2019 14:27	WG1241792
Tetrachloroethene	0.575		0.00608	0.0217	8	03/02/2019 05:44	WG1244113
Toluene	0.00140	J	0.00136	0.00543	1	02/25/2019 14:27	WG1241792
1,2,3-Trichlorobenzene	U		0.000678	0.00271	1	02/25/2019 14:27	WG1241792
1,2,4-Trichlorobenzene	U		0.00523	0.0136	1	02/25/2019 14:27	WG1241792
1,1,1-Trichloroethane	U		0.000299	0.00271	1	02/25/2019 14:27	WG1241792
1,1,2-Trichloroethane	U		0.000959	0.00271	1	02/25/2019 14:27	WG1241792
Trichloroethene	0.577		0.000434	0.00109	1	02/25/2019 14:27	WG1241792
Trichlorofluoromethane	U		0.000543	0.00271	1	02/25/2019 14:27	WG1241792
1,2,3-Trichloropropane	U		0.00554	0.0136	1	02/25/2019 14:27	WG1241792
1,2,4-Trimethylbenzene	U		0.00126	0.00543	1	02/25/2019 14:27	WG1241792
1,2,3-Trimethylbenzene	U		0.00125	0.00543	1	02/25/2019 14:27	WG1241792
1,3,5-Trimethylbenzene	U		0.00117	0.00543	1	02/25/2019 14:27	WG1241792
Vinyl acetate	U		0.00382	0.0136	1	02/25/2019 14:27	WG1241792
Vinyl chloride	U		0.000741	0.00271	1	02/25/2019 14:27	WG1241792
Xylenes, Total	U		0.00519	0.00706	1	02/25/2019 14:27	WG1241792
(S) Toluene-d8	99.8			75.0-131		02/25/2019 14:27	WG1241792
(S) Toluene-d8	101			75.0-131		03/02/2019 05:44	WG1244113
(S) 4-Bromofluorobenzene	93.4			67.0-138		02/25/2019 14:27	WG1241792
(S) 4-Bromofluorobenzene	95.5			67.0-138		03/02/2019 05:44	WG1244113
(S) 1,2-Dichloroethane-d4	96.5			70.0-130		02/25/2019 14:27	WG1241792
(S) 1,2-Dichloroethane-d4	91.5			70.0-130		03/02/2019 05:44	WG1244113

Sample Narrative:

L1072936-05 WG1241792, WG1244113: Not all compounds reportable at lower dilution,

L1072936-05 WG1241792, WG1244113: Cannot be reanalyzed at lower dilution due to high levels of target analytes.

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	84.7		1	02/27/2019 16:21	WG1242107

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0162	0.0295	1	02/25/2019 14:47	WG1241792
Acrylonitrile	U		0.00224	0.0148	1	02/25/2019 14:47	WG1241792
Benzene	0.000692	<u>J</u>	0.000472	0.00118	1	02/25/2019 14:47	WG1241792
Bromobenzene	U		0.00124	0.0148	1	02/25/2019 14:47	WG1241792
Bromodichloromethane	U		0.000931	0.00295	1	02/25/2019 14:47	WG1241792
Bromochloromethane	U		0.00133	0.00590	1	02/25/2019 14:47	WG1241792
Bromoform	U		0.00706	0.0295	1	03/02/2019 02:01	WG1244113
Bromomethane	U	<u>J4</u>	0.00437	0.0148	1	02/25/2019 14:47	WG1241792
n-Butylbenzene	U		0.00453	0.0148	1	02/25/2019 14:47	WG1241792
sec-Butylbenzene	U		0.00299	0.0148	1	02/25/2019 14:47	WG1241792
tert-Butylbenzene	U		0.00183	0.00590	1	02/25/2019 14:47	WG1241792
Carbon disulfide	U		0.00479	0.0148	1	02/25/2019 14:47	WG1241792
Carbon tetrachloride	U		0.00128	0.00590	1	02/25/2019 14:47	WG1241792
Chlorobenzene	U		0.000677	0.00295	1	02/25/2019 14:47	WG1241792
Chlorodibromomethane	U		0.000531	0.00295	1	02/25/2019 14:47	WG1241792
Chloroethane	U		0.00128	0.00590	1	02/25/2019 14:47	WG1241792
Chloroform	U		0.000490	0.00295	1	02/25/2019 14:47	WG1241792
Chloromethane	U		0.00164	0.0148	1	02/25/2019 14:47	WG1241792
2-Chlorotoluene	U		0.00109	0.00295	1	02/25/2019 14:47	WG1241792
4-Chlorotoluene	U		0.00133	0.00590	1	02/25/2019 14:47	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00602	0.0295	1	02/25/2019 14:47	WG1241792
1,2-Dibromoethane	U		0.000620	0.00295	1	02/25/2019 14:47	WG1241792
Dibromomethane	U		0.00118	0.00590	1	02/25/2019 14:47	WG1241792
1,2-Dichlorobenzene	U		0.00171	0.00590	1	02/25/2019 14:47	WG1241792
1,3-Dichlorobenzene	U		0.00201	0.00590	1	02/25/2019 14:47	WG1241792
1,4-Dichlorobenzene	U		0.00233	0.00590	1	02/25/2019 14:47	WG1241792
Dichlorodifluoromethane	U		0.000966	0.00295	1	02/25/2019 14:47	WG1241792
1,1-Dichloroethane	U		0.000679	0.00295	1	02/25/2019 14:47	WG1241792
1,2-Dichloroethane	U		0.000561	0.00295	1	03/02/2019 02:01	WG1244113
1,1-Dichloroethene	U		0.000590	0.00295	1	02/25/2019 14:47	WG1241792
cis-1,2-Dichloroethene	0.0713		0.000815	0.00295	1	03/02/2019 02:01	WG1244113
trans-1,2-Dichloroethene	0.00213	<u>J</u>	0.00169	0.00590	1	02/25/2019 14:47	WG1241792
1,2-Dichloropropane	U		0.00150	0.00590	1	02/25/2019 14:47	WG1241792
1,1-Dichloropropene	U		0.000827	0.00295	1	02/25/2019 14:47	WG1241792
1,3-Dichloropropane	U		0.00207	0.00590	1	02/25/2019 14:47	WG1241792
cis-1,3-Dichloropropene	U		0.000801	0.00295	1	02/25/2019 14:47	WG1241792
trans-1,3-Dichloropropene	U		0.00181	0.00590	1	02/25/2019 14:47	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00165	0.00590	1	02/25/2019 14:47	WG1241792
2,2-Dichloropropane	U		0.000936	0.00295	1	02/25/2019 14:47	WG1241792
Di-isopropyl ether	U		0.000413	0.00118	1	02/25/2019 14:47	WG1241792
Ethylbenzene	U		0.000626	0.00295	1	02/25/2019 14:47	WG1241792
Hexachloro-1,3-butadiene	U		0.0150	0.0295	1	02/25/2019 14:47	WG1241792
2-Hexanone	U		0.0118	0.0295	1	02/25/2019 14:47	WG1241792
n-Hexane	0.00213	<u>B J</u>	0.00125	0.00590	1	02/25/2019 14:47	WG1241792
Iodomethane	U		0.00714	0.0148	1	02/25/2019 14:47	WG1241792
Isopropylbenzene	U		0.00102	0.00295	1	02/25/2019 14:47	WG1241792
p-Isopropyltoluene	U		0.00275	0.00590	1	02/25/2019 14:47	WG1241792
2-Butanone (MEK)	U		0.0148	0.0295	1	02/25/2019 14:47	WG1241792
Methylene Chloride	U		0.00784	0.0295	1	02/25/2019 14:47	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0295	1	02/25/2019 14:47	WG1241792

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/20/19 16:12

L1072936

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

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	0.000348	0.00118	1	02/25/2019 14:47	WG1241792
Naphthalene	U		0.00368	0.0148	1	02/25/2019 14:47	WG1241792
n-Propylbenzene	U		0.00139	0.00590	1	02/25/2019 14:47	WG1241792
Styrene	U	J4	0.00322	0.0148	1	02/25/2019 14:47	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000590	0.00295	1	02/25/2019 14:47	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000461	0.00295	1	02/25/2019 14:47	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000797	0.00295	1	02/25/2019 14:47	WG1241792
Tetrachloroethene	0.00500		0.000827	0.00295	1	03/02/2019 02:01	WG1244113
Toluene	0.00187	J	0.00148	0.00590	1	02/25/2019 14:47	WG1241792
1,2,3-Trichlorobenzene	U		0.000738	0.00295	1	02/25/2019 14:47	WG1241792
1,2,4-Trichlorobenzene	U		0.00569	0.0148	1	02/25/2019 14:47	WG1241792
1,1,1-Trichloroethane	U		0.000325	0.00295	1	02/25/2019 14:47	WG1241792
1,1,2-Trichloroethane	U		0.00104	0.00295	1	02/25/2019 14:47	WG1241792
Trichloroethene	0.0210		0.000472	0.00118	1	02/25/2019 14:47	WG1241792
Trichlorofluoromethane	U		0.000590	0.00295	1	02/25/2019 14:47	WG1241792
1,2,3-Trichloropropane	U		0.00602	0.0148	1	02/25/2019 14:47	WG1241792
1,2,4-Trimethylbenzene	U		0.00137	0.00590	1	02/25/2019 14:47	WG1241792
1,2,3-Trimethylbenzene	U		0.00136	0.00590	1	02/25/2019 14:47	WG1241792
1,3,5-Trimethylbenzene	U		0.00128	0.00590	1	02/25/2019 14:47	WG1241792
Vinyl acetate	U		0.00416	0.0148	1	02/25/2019 14:47	WG1241792
Vinyl chloride	U		0.000807	0.00295	1	02/25/2019 14:47	WG1241792
Xylenes, Total	U		0.00564	0.00768	1	02/25/2019 14:47	WG1241792
(S) Toluene-d8	99.3			75.0-131		02/25/2019 14:47	WG1241792
(S) Toluene-d8	101			75.0-131		03/02/2019 02:01	WG1244113
(S) 4-Bromofluorobenzene	91.4			67.0-138		02/25/2019 14:47	WG1241792
(S) 4-Bromofluorobenzene	96.6			67.0-138		03/02/2019 02:01	WG1244113
(S) 1,2-Dichloroethane-d4	96.4			70.0-130		02/25/2019 14:47	WG1241792
(S) 1,2-Dichloroethane-d4	87.0			70.0-130		03/02/2019 02:01	WG1244113

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	90.5		1	02/27/2019 16:21	WG1242107

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0303	0.0552	2	02/25/2019 15:07	WG1241792
Acrylonitrile	U		0.00420	0.0276	2	02/25/2019 15:07	WG1241792
Benzene	U		0.000884	0.00221	2	02/25/2019 15:07	WG1241792
Bromobenzene	U		0.00232	0.0276	2	02/25/2019 15:07	WG1241792
Bromodichloromethane	U		0.00175	0.00552	2	02/25/2019 15:07	WG1241792
Bromochloromethane	U		0.00250	0.0110	2	02/25/2019 15:07	WG1241792
Bromoform	U		0.0133	0.0552	2	03/02/2019 02:23	WG1244113
Bromomethane	U	J4	0.00817	0.0276	2	02/25/2019 15:07	WG1241792
n-Butylbenzene	U		0.00848	0.0276	2	02/25/2019 15:07	WG1241792
sec-Butylbenzene	U		0.00559	0.0276	2	02/25/2019 15:07	WG1241792
tert-Butylbenzene	U		0.00342	0.0110	2	02/25/2019 15:07	WG1241792
Carbon disulfide	U		0.00897	0.0276	2	02/25/2019 15:07	WG1241792
Carbon tetrachloride	U		0.00239	0.0110	2	02/25/2019 15:07	WG1241792
Chlorobenzene	U		0.00127	0.00552	2	02/25/2019 15:07	WG1241792
Chlorodibromomethane	U		0.000994	0.00552	2	02/25/2019 15:07	WG1241792
Chloroethane	U		0.00239	0.0110	2	02/25/2019 15:07	WG1241792
Chloroform	U		0.000917	0.00552	2	02/25/2019 15:07	WG1241792
Chloromethane	U		0.00307	0.0276	2	02/25/2019 15:07	WG1241792
2-Chlorotoluene	U		0.00203	0.00552	2	02/25/2019 15:07	WG1241792
4-Chlorotoluene	U		0.00250	0.0110	2	02/25/2019 15:07	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.0113	0.0552	2	02/25/2019 15:07	WG1241792
1,2-Dibromoethane	U		0.00116	0.00552	2	02/25/2019 15:07	WG1241792
Dibromomethane	U		0.00221	0.0110	2	02/25/2019 15:07	WG1241792
1,2-Dichlorobenzene	U		0.00320	0.0110	2	02/25/2019 15:07	WG1241792
1,3-Dichlorobenzene	U		0.00376	0.0110	2	02/25/2019 15:07	WG1241792
1,4-Dichlorobenzene	U		0.00435	0.0110	2	02/25/2019 15:07	WG1241792
Dichlorodifluoromethane	U		0.00181	0.00552	2	02/25/2019 15:07	WG1241792
1,1-Dichloroethane	U		0.00127	0.00552	2	02/25/2019 15:07	WG1241792
1,2-Dichloroethane	U		0.00105	0.00552	2	03/02/2019 02:23	WG1244113
1,1-Dichloroethene	0.00763		0.00110	0.00552	2	02/25/2019 15:07	WG1241792
cis-1,2-Dichloroethene	1.82		0.00152	0.00552	2	02/25/2019 15:07	WG1241792
trans-1,2-Dichloroethene	0.00347	J	0.00316	0.0110	2	02/25/2019 15:07	WG1241792
1,2-Dichloropropane	U		0.00281	0.0110	2	02/25/2019 15:07	WG1241792
1,1-Dichloropropene	U		0.00155	0.00552	2	02/25/2019 15:07	WG1241792
1,3-Dichloropropane	U		0.00387	0.0110	2	02/25/2019 15:07	WG1241792
cis-1,3-Dichloropropene	U		0.00150	0.00552	2	02/25/2019 15:07	WG1241792
trans-1,3-Dichloropropene	U		0.00338	0.0110	2	02/25/2019 15:07	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00309	0.0110	2	02/25/2019 15:07	WG1241792
2,2-Dichloropropane	U		0.00176	0.00552	2	02/25/2019 15:07	WG1241792
Di-isopropyl ether	U		0.000773	0.00221	2	02/25/2019 15:07	WG1241792
Ethylbenzene	U		0.00117	0.00552	2	02/25/2019 15:07	WG1241792
Hexachloro-1,3-butadiene	U		0.0281	0.0552	2	02/25/2019 15:07	WG1241792
2-Hexanone	U		0.0221	0.0552	2	02/25/2019 15:07	WG1241792
n-Hexane	0.00347	B J	0.00234	0.0110	2	02/25/2019 15:07	WG1241792
Iodomethane	U		0.0134	0.0276	2	02/25/2019 15:07	WG1241792
Isopropylbenzene	U		0.00191	0.00552	2	02/25/2019 15:07	WG1241792
p-Isopropyltoluene	U		0.00515	0.0110	2	02/25/2019 15:07	WG1241792
2-Butanone (MEK)	U		0.0276	0.0552	2	02/25/2019 15:07	WG1241792
Methylene Chloride	U		0.0147	0.0552	2	02/25/2019 15:07	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0221	0.0552	2	02/25/2019 15:07	WG1241792

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/20/19 16:55

L1072936

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

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	0.000652	0.00221	2	02/25/2019 15:07	WG1241792
Naphthalene	U		0.00689	0.0276	2	02/25/2019 15:07	WG1241792
n-Propylbenzene	U		0.00261	0.0110	2	02/25/2019 15:07	WG1241792
Styrene	U	J4	0.00603	0.0276	2	02/25/2019 15:07	WG1241792
1,1,1,2-Tetrachloroethane	U		0.00110	0.00552	2	02/25/2019 15:07	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000861	0.00552	2	02/25/2019 15:07	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.00149	0.00552	2	02/25/2019 15:07	WG1241792
Tetrachloroethene	0.193		0.00155	0.00552	2	02/25/2019 15:07	WG1241792
Toluene	0.00282	J	0.00276	0.0110	2	02/25/2019 15:07	WG1241792
1,2,3-Trichlorobenzene	U		0.00138	0.00552	2	02/25/2019 15:07	WG1241792
1,2,4-Trichlorobenzene	U		0.0106	0.0276	2	02/25/2019 15:07	WG1241792
1,1,1-Trichloroethane	U		0.000607	0.00552	2	02/25/2019 15:07	WG1241792
1,1,2-Trichloroethane	U		0.00195	0.00552	2	02/25/2019 15:07	WG1241792
Trichloroethene	0.316		0.000884	0.00221	2	02/25/2019 15:07	WG1241792
Trichlorofluoromethane	U		0.00110	0.00552	2	02/25/2019 15:07	WG1241792
1,2,3-Trichloropropane	U		0.0113	0.0276	2	02/25/2019 15:07	WG1241792
1,2,4-Trimethylbenzene	U		0.00256	0.0110	2	02/25/2019 15:07	WG1241792
1,2,3-Trimethylbenzene	U		0.00254	0.0110	2	02/25/2019 15:07	WG1241792
1,3,5-Trimethylbenzene	U		0.00239	0.0110	2	02/25/2019 15:07	WG1241792
Vinyl acetate	U		0.00778	0.0276	2	02/25/2019 15:07	WG1241792
Vinyl chloride	0.00759		0.00151	0.00552	2	02/25/2019 15:07	WG1241792
Xylenes, Total	U		0.0106	0.0144	2	02/25/2019 15:07	WG1241792
(S) Toluene-d8	99.0			75.0-131		02/25/2019 15:07	WG1241792
(S) Toluene-d8	100			75.0-131		03/02/2019 02:23	WG1244113
(S) 4-Bromofluorobenzene	90.2			67.0-138		02/25/2019 15:07	WG1241792
(S) 4-Bromofluorobenzene	96.4			67.0-138		03/02/2019 02:23	WG1244113
(S) 1,2-Dichloroethane-d4	103			70.0-130		02/25/2019 15:07	WG1241792
(S) 1,2-Dichloroethane-d4	87.4			70.0-130		03/02/2019 02:23	WG1244113

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

Sample Narrative:

L1072936-07 WG1241792, WG1244113: Dilution due to sample volume.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.4		1	02/27/2019 16:21	WG1242107

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0147	0.0268	1	02/25/2019 15:26	WG1241792
Acrylonitrile	U		0.00203	0.0134	1	02/25/2019 15:26	WG1241792
Benzene	U		0.000428	0.00107	1	02/25/2019 15:26	WG1241792
Bromobenzene	U		0.00112	0.0134	1	02/25/2019 15:26	WG1241792
Bromodichloromethane	U		0.000844	0.00268	1	02/25/2019 15:26	WG1241792
Bromochloromethane	U		0.00121	0.00535	1	02/25/2019 15:26	WG1241792
Bromoform	U		0.00640	0.0268	1	03/02/2019 02:45	WG1244113
Bromomethane	U	J4	0.00396	0.0134	1	02/25/2019 15:26	WG1241792
n-Butylbenzene	U		0.00411	0.0134	1	02/25/2019 15:26	WG1241792
sec-Butylbenzene	U		0.00271	0.0134	1	02/25/2019 15:26	WG1241792
tert-Butylbenzene	U		0.00166	0.00535	1	02/25/2019 15:26	WG1241792
Carbon disulfide	U		0.00435	0.0134	1	02/25/2019 15:26	WG1241792
Carbon tetrachloride	U		0.00116	0.00535	1	02/25/2019 15:26	WG1241792
Chlorobenzene	U		0.000613	0.00268	1	02/25/2019 15:26	WG1241792
Chlorodibromomethane	U		0.000482	0.00268	1	02/25/2019 15:26	WG1241792
Chloroethane	U		0.00116	0.00535	1	02/25/2019 15:26	WG1241792
Chloroform	U		0.000444	0.00268	1	02/25/2019 15:26	WG1241792
Chloromethane	U		0.00149	0.0134	1	02/25/2019 15:26	WG1241792
2-Chlorotoluene	U		0.000985	0.00268	1	02/25/2019 15:26	WG1241792
4-Chlorotoluene	U		0.00121	0.00535	1	02/25/2019 15:26	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00546	0.0268	1	02/25/2019 15:26	WG1241792
1,2-Dibromoethane	U		0.000562	0.00268	1	02/25/2019 15:26	WG1241792
Dibromomethane	U		0.00107	0.00535	1	02/25/2019 15:26	WG1241792
1,2-Dichlorobenzene	U		0.00155	0.00535	1	02/25/2019 15:26	WG1241792
1,3-Dichlorobenzene	U		0.00182	0.00535	1	02/25/2019 15:26	WG1241792
1,4-Dichlorobenzene	U		0.00211	0.00535	1	02/25/2019 15:26	WG1241792
Dichlorodifluoromethane	U		0.000876	0.00268	1	02/25/2019 15:26	WG1241792
1,1-Dichloroethane	U		0.000616	0.00268	1	02/25/2019 15:26	WG1241792
1,2-Dichloroethane	U		0.000509	0.00268	1	03/02/2019 02:45	WG1244113
1,1-Dichloroethene	U		0.000535	0.00268	1	02/25/2019 15:26	WG1241792
cis-1,2-Dichloroethene	0.00754		0.000739	0.00268	1	02/25/2019 15:26	WG1241792
trans-1,2-Dichloroethene	U		0.00153	0.00535	1	02/25/2019 15:26	WG1241792
1,2-Dichloropropane	U		0.00136	0.00535	1	02/25/2019 15:26	WG1241792
1,1-Dichloropropene	U		0.000749	0.00268	1	02/25/2019 15:26	WG1241792
1,3-Dichloropropane	U		0.00187	0.00535	1	02/25/2019 15:26	WG1241792
cis-1,3-Dichloropropene	U		0.000726	0.00268	1	02/25/2019 15:26	WG1241792
trans-1,3-Dichloropropene	U		0.00164	0.00535	1	02/25/2019 15:26	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00150	0.00535	1	02/25/2019 15:26	WG1241792
2,2-Dichloropropane	U		0.000849	0.00268	1	02/25/2019 15:26	WG1241792
Di-isopropyl ether	U		0.000375	0.00107	1	02/25/2019 15:26	WG1241792
Ethylbenzene	U		0.000567	0.00268	1	02/25/2019 15:26	WG1241792
Hexachloro-1,3-butadiene	U		0.0136	0.0268	1	02/25/2019 15:26	WG1241792
2-Hexanone	U		0.0107	0.0268	1	02/25/2019 15:26	WG1241792
n-Hexane	0.00281	B J	0.00113	0.00535	1	02/25/2019 15:26	WG1241792
Iodomethane	U		0.00648	0.0134	1	02/25/2019 15:26	WG1241792
Isopropylbenzene	U		0.000924	0.00268	1	02/25/2019 15:26	WG1241792
p-Isopropyltoluene	U		0.00249	0.00535	1	02/25/2019 15:26	WG1241792
2-Butanone (MEK)	U		0.0134	0.0268	1	02/25/2019 15:26	WG1241792
Methylene Chloride	U		0.00711	0.0268	1	02/25/2019 15:26	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0268	1	02/25/2019 15:26	WG1241792

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/20/19 17:00

L1072936

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

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	0.000316	0.00107	1	02/25/2019 15:26	WG1241792
Naphthalene	U		0.00334	0.0134	1	02/25/2019 15:26	WG1241792
n-Propylbenzene	U		0.00126	0.00535	1	02/25/2019 15:26	WG1241792
Styrene	U	J4	0.00292	0.0134	1	02/25/2019 15:26	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000535	0.00268	1	02/25/2019 15:26	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000418	0.00268	1	02/25/2019 15:26	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000723	0.00268	1	02/25/2019 15:26	WG1241792
Tetrachloroethene	0.00513		0.000749	0.00268	1	02/25/2019 15:26	WG1241792
Toluene	0.00156	J	0.00134	0.00535	1	02/25/2019 15:26	WG1241792
1,2,3-Trichlorobenzene	U		0.000669	0.00268	1	02/25/2019 15:26	WG1241792
1,2,4-Trichlorobenzene	U		0.00516	0.0134	1	02/25/2019 15:26	WG1241792
1,1,1-Trichloroethane	U		0.000294	0.00268	1	02/25/2019 15:26	WG1241792
1,1,2-Trichloroethane	U		0.000945	0.00268	1	02/25/2019 15:26	WG1241792
Trichloroethene	0.00153		0.000428	0.00107	1	02/25/2019 15:26	WG1241792
Trichlorofluoromethane	U		0.000535	0.00268	1	02/25/2019 15:26	WG1241792
1,2,3-Trichloropropane	U		0.00546	0.0134	1	02/25/2019 15:26	WG1241792
1,2,4-Trimethylbenzene	U		0.00124	0.00535	1	02/25/2019 15:26	WG1241792
1,2,3-Trimethylbenzene	U		0.00123	0.00535	1	02/25/2019 15:26	WG1241792
1,3,5-Trimethylbenzene	U		0.00116	0.00535	1	02/25/2019 15:26	WG1241792
Vinyl acetate	U		0.00377	0.0134	1	02/25/2019 15:26	WG1241792
Vinyl chloride	U		0.000731	0.00268	1	02/25/2019 15:26	WG1241792
Xylenes, Total	U		0.00512	0.00696	1	02/25/2019 15:26	WG1241792
(S) Toluene-d8	99.0			75.0-131		02/25/2019 15:26	WG1241792
(S) Toluene-d8	99.8			75.0-131		03/02/2019 02:45	WG1244113
(S) 4-Bromofluorobenzene	92.0			67.0-138		02/25/2019 15:26	WG1241792
(S) 4-Bromofluorobenzene	94.5			67.0-138		03/02/2019 02:45	WG1244113
(S) 1,2-Dichloroethane-d4	95.6			70.0-130		02/25/2019 15:26	WG1241792
(S) 1,2-Dichloroethane-d4	87.0			70.0-130		03/02/2019 02:45	WG1244113

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	90.9		1	02/27/2019 16:21	WG1242107

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0151	0.0275	1	02/25/2019 15:46	WG1241792
Acrylonitrile	U		0.00209	0.0138	1	02/25/2019 15:46	WG1241792
Benzene	U		0.000440	0.00110	1	02/25/2019 15:46	WG1241792
Bromobenzene	U		0.00116	0.0138	1	02/25/2019 15:46	WG1241792
Bromodichloromethane	U		0.000867	0.00275	1	02/25/2019 15:46	WG1241792
Bromochloromethane	U		0.00124	0.00550	1	02/25/2019 15:46	WG1241792
Bromoform	U		0.00658	0.0275	1	03/02/2019 03:08	WG1244113
Bromomethane	U	J4	0.00407	0.0138	1	02/25/2019 15:46	WG1241792
n-Butylbenzene	U		0.00422	0.0138	1	02/25/2019 15:46	WG1241792
sec-Butylbenzene	U		0.00278	0.0138	1	02/25/2019 15:46	WG1241792
tert-Butylbenzene	U		0.00171	0.00550	1	02/25/2019 15:46	WG1241792
Carbon disulfide	U		0.00447	0.0138	1	02/25/2019 15:46	WG1241792
Carbon tetrachloride	U		0.00119	0.00550	1	02/25/2019 15:46	WG1241792
Chlorobenzene	U		0.000630	0.00275	1	02/25/2019 15:46	WG1241792
Chlorodibromomethane	U		0.000495	0.00275	1	02/25/2019 15:46	WG1241792
Chloroethane	U		0.00119	0.00550	1	02/25/2019 15:46	WG1241792
Chloroform	U		0.000457	0.00275	1	02/25/2019 15:46	WG1241792
Chloromethane	U		0.00153	0.0138	1	02/25/2019 15:46	WG1241792
2-Chlorotoluene	U		0.00101	0.00275	1	02/25/2019 15:46	WG1241792
4-Chlorotoluene	U		0.00124	0.00550	1	02/25/2019 15:46	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00561	0.0275	1	02/25/2019 15:46	WG1241792
1,2-Dibromoethane	U		0.000578	0.00275	1	02/25/2019 15:46	WG1241792
Dibromomethane	U		0.00110	0.00550	1	02/25/2019 15:46	WG1241792
1,2-Dichlorobenzene	U		0.00160	0.00550	1	02/25/2019 15:46	WG1241792
1,3-Dichlorobenzene	U		0.00187	0.00550	1	02/25/2019 15:46	WG1241792
1,4-Dichlorobenzene	U		0.00217	0.00550	1	02/25/2019 15:46	WG1241792
Dichlorodifluoromethane	U		0.000900	0.00275	1	02/25/2019 15:46	WG1241792
1,1-Dichloroethane	U		0.000633	0.00275	1	02/25/2019 15:46	WG1241792
1,2-Dichloroethane	U		0.000523	0.00275	1	03/02/2019 03:08	WG1244113
1,1-Dichloroethene	0.00191	J	0.000550	0.00275	1	02/25/2019 15:46	WG1241792
cis-1,2-Dichloroethene	0.552		0.000759	0.00275	1	02/25/2019 15:46	WG1241792
trans-1,2-Dichloroethene	0.00224	J	0.00157	0.00550	1	02/25/2019 15:46	WG1241792
1,2-Dichloropropane	U		0.00140	0.00550	1	02/25/2019 15:46	WG1241792
1,1-Dichloropropene	U		0.000770	0.00275	1	02/25/2019 15:46	WG1241792
1,3-Dichloropropane	U		0.00193	0.00550	1	02/25/2019 15:46	WG1241792
cis-1,3-Dichloropropene	U		0.000746	0.00275	1	02/25/2019 15:46	WG1241792
trans-1,3-Dichloropropene	U		0.00168	0.00550	1	02/25/2019 15:46	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00154	0.00550	1	02/25/2019 15:46	WG1241792
2,2-Dichloropropane	U		0.000872	0.00275	1	02/25/2019 15:46	WG1241792
Di-isopropyl ether	U		0.000385	0.00110	1	02/25/2019 15:46	WG1241792
Ethylbenzene	U		0.000583	0.00275	1	02/25/2019 15:46	WG1241792
Hexachloro-1,3-butadiene	U		0.0140	0.0275	1	02/25/2019 15:46	WG1241792
2-Hexanone	U		0.0110	0.0275	1	02/25/2019 15:46	WG1241792
n-Hexane	0.00182	B J	0.00117	0.00550	1	02/25/2019 15:46	WG1241792
Iodomethane	U		0.00666	0.0138	1	02/25/2019 15:46	WG1241792
Isopropylbenzene	U		0.000949	0.00275	1	02/25/2019 15:46	WG1241792
p-Isopropyltoluene	U		0.00256	0.00550	1	02/25/2019 15:46	WG1241792
2-Butanone (MEK)	U		0.0138	0.0275	1	02/25/2019 15:46	WG1241792
Methylene Chloride	U		0.00730	0.0275	1	02/25/2019 15:46	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0275	1	02/25/2019 15:46	WG1241792

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/21/19 13:00

L1072936

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U	<u>J0</u>	0.000325	0.00110	1	02/25/2019 15:46	WG1241792
Naphthalene	U		0.00343	0.0138	1	02/25/2019 15:46	WG1241792
n-Propylbenzene	U		0.00130	0.00550	1	02/25/2019 15:46	WG1241792
Styrene	U	<u>J4</u>	0.00300	0.0138	1	02/25/2019 15:46	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000550	0.00275	1	02/25/2019 15:46	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000429	0.00275	1	02/25/2019 15:46	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000743	0.00275	1	02/25/2019 15:46	WG1241792
Tetrachloroethene	0.285		0.000770	0.00275	1	02/25/2019 15:46	WG1241792
Toluene	0.00216	<u>J</u>	0.00138	0.00550	1	02/25/2019 15:46	WG1241792
1,2,3-Trichlorobenzene	U		0.000688	0.00275	1	02/25/2019 15:46	WG1241792
1,2,4-Trichlorobenzene	U		0.00530	0.0138	1	02/25/2019 15:46	WG1241792
1,1,1-Trichloroethane	U		0.000303	0.00275	1	02/25/2019 15:46	WG1241792
1,1,2-Trichloroethane	U		0.000971	0.00275	1	02/25/2019 15:46	WG1241792
Trichloroethene	0.264		0.000440	0.00110	1	02/25/2019 15:46	WG1241792
Trichlorofluoromethane	U		0.000550	0.00275	1	02/25/2019 15:46	WG1241792
1,2,3-Trichloropropane	U		0.00561	0.0138	1	02/25/2019 15:46	WG1241792
1,2,4-Trimethylbenzene	U		0.00128	0.00550	1	02/25/2019 15:46	WG1241792
1,2,3-Trimethylbenzene	U		0.00127	0.00550	1	02/25/2019 15:46	WG1241792
1,3,5-Trimethylbenzene	U		0.00119	0.00550	1	02/25/2019 15:46	WG1241792
Vinyl acetate	U		0.00387	0.0138	1	02/25/2019 15:46	WG1241792
Vinyl chloride	U		0.000751	0.00275	1	02/25/2019 15:46	WG1241792
Xylenes, Total	U		0.00526	0.00715	1	02/25/2019 15:46	WG1241792
(S) Toluene-d8	102			75.0-131		02/25/2019 15:46	WG1241792
(S) Toluene-d8	103			75.0-131		03/02/2019 03:08	WG1244113
(S) 4-Bromofluorobenzene	89.1			67.0-138		02/25/2019 15:46	WG1241792
(S) 4-Bromofluorobenzene	103			67.0-138		03/02/2019 03:08	WG1244113
(S) 1,2-Dichloroethane-d4	97.4			70.0-130		02/25/2019 15:46	WG1241792
(S) 1,2-Dichloroethane-d4	87.5			70.0-130		03/02/2019 03:08	WG1244113

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	79.3		1	02/27/2019 16:21	WG1242107

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0173	0.0315	1	02/25/2019 16:06	WG1241792
Acrylonitrile	U		0.00240	0.0158	1	02/25/2019 16:06	WG1241792
Benzene	0.00843		0.000504	0.00126	1	02/25/2019 16:06	WG1241792
Bromobenzene	U		0.00132	0.0158	1	02/25/2019 16:06	WG1241792
Bromodichloromethane	U		0.000994	0.00315	1	02/25/2019 16:06	WG1241792
Bromochloromethane	U		0.00142	0.00630	1	02/25/2019 16:06	WG1241792
Bromoform	U		0.00754	0.0315	1	03/02/2019 03:30	WG1244113
Bromomethane	U	J4	0.00466	0.0158	1	02/25/2019 16:06	WG1241792
n-Butylbenzene	U		0.00484	0.0158	1	02/25/2019 16:06	WG1241792
sec-Butylbenzene	U		0.00319	0.0158	1	02/25/2019 16:06	WG1241792
tert-Butylbenzene	U		0.00195	0.00630	1	02/25/2019 16:06	WG1241792
Carbon disulfide	U		0.00512	0.0158	1	02/25/2019 16:06	WG1241792
Carbon tetrachloride	U		0.00136	0.00630	1	02/25/2019 16:06	WG1241792
Chlorobenzene	U		0.000722	0.00315	1	02/25/2019 16:06	WG1241792
Chlorodibromomethane	U		0.000567	0.00315	1	02/25/2019 16:06	WG1241792
Chloroethane	U		0.00136	0.00630	1	02/25/2019 16:06	WG1241792
Chloroform	U		0.000523	0.00315	1	02/25/2019 16:06	WG1241792
Chloromethane	U		0.00175	0.0158	1	02/25/2019 16:06	WG1241792
2-Chlorotoluene	U		0.00116	0.00315	1	02/25/2019 16:06	WG1241792
4-Chlorotoluene	U		0.00142	0.00630	1	02/25/2019 16:06	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00643	0.0315	1	02/25/2019 16:06	WG1241792
1,2-Dibromoethane	U		0.000662	0.00315	1	02/25/2019 16:06	WG1241792
Dibromomethane	U		0.00126	0.00630	1	02/25/2019 16:06	WG1241792
1,2-Dichlorobenzene	U		0.00183	0.00630	1	02/25/2019 16:06	WG1241792
1,3-Dichlorobenzene	U		0.00214	0.00630	1	02/25/2019 16:06	WG1241792
1,4-Dichlorobenzene	U		0.00248	0.00630	1	02/25/2019 16:06	WG1241792
Dichlorodifluoromethane	U		0.00103	0.00315	1	02/25/2019 16:06	WG1241792
1,1-Dichloroethane	U		0.000725	0.00315	1	02/25/2019 16:06	WG1241792
1,2-Dichloroethane	U		0.000599	0.00315	1	03/02/2019 03:30	WG1244113
1,1-Dichloroethene	U		0.000630	0.00315	1	02/25/2019 16:06	WG1241792
cis-1,2-Dichloroethene	0.00105	J	0.000870	0.00315	1	02/25/2019 16:06	WG1241792
trans-1,2-Dichloroethene	U		0.00180	0.00630	1	02/25/2019 16:06	WG1241792
1,2-Dichloropropane	U		0.00160	0.00630	1	02/25/2019 16:06	WG1241792
1,1-Dichloropropene	U		0.000883	0.00315	1	02/25/2019 16:06	WG1241792
1,3-Dichloropropane	U		0.00221	0.00630	1	02/25/2019 16:06	WG1241792
cis-1,3-Dichloropropene	U		0.000855	0.00315	1	02/25/2019 16:06	WG1241792
trans-1,3-Dichloropropene	U		0.00193	0.00630	1	02/25/2019 16:06	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00177	0.00630	1	02/25/2019 16:06	WG1241792
2,2-Dichloropropane	U		0.00100	0.00315	1	02/25/2019 16:06	WG1241792
Di-isopropyl ether	U		0.000441	0.00126	1	02/25/2019 16:06	WG1241792
Ethylbenzene	0.00170	J	0.000668	0.00315	1	02/25/2019 16:06	WG1241792
Hexachloro-1,3-butadiene	U		0.0160	0.0315	1	02/25/2019 16:06	WG1241792
2-Hexanone	U		0.0126	0.0315	1	02/25/2019 16:06	WG1241792
n-Hexane	0.00404	B J	0.00134	0.00630	1	02/25/2019 16:06	WG1241792
Iodomethane	U		0.00763	0.0158	1	02/25/2019 16:06	WG1241792
Isopropylbenzene	U		0.00109	0.00315	1	02/25/2019 16:06	WG1241792
p-Isopropyltoluene	0.00695		0.00294	0.00630	1	02/25/2019 16:06	WG1241792
2-Butanone (MEK)	U		0.0158	0.0315	1	02/25/2019 16:06	WG1241792
Methylene Chloride	U		0.00837	0.0315	1	02/25/2019 16:06	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0126	0.0315	1	02/25/2019 16:06	WG1241792

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/21/19 14:40

L1072936

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

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	0.000372	0.00126	1	02/25/2019 16:06	WG1241792
Naphthalene	0.0173		0.00393	0.0158	1	02/25/2019 16:06	WG1241792
n-Propylbenzene	U		0.00149	0.00630	1	02/25/2019 16:06	WG1241792
Styrene	U	J4	0.00344	0.0158	1	02/25/2019 16:06	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000630	0.00315	1	02/25/2019 16:06	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000492	0.00315	1	02/25/2019 16:06	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000851	0.00315	1	02/25/2019 16:06	WG1241792
Tetrachloroethene	0.0321		0.000883	0.00315	1	02/25/2019 16:06	WG1241792
Toluene	0.00787		0.00158	0.00630	1	02/25/2019 16:06	WG1241792
1,2,3-Trichlorobenzene	U		0.000788	0.00315	1	02/25/2019 16:06	WG1241792
1,2,4-Trichlorobenzene	U		0.00608	0.0158	1	02/25/2019 16:06	WG1241792
1,1,1-Trichloroethane	U		0.000347	0.00315	1	02/25/2019 16:06	WG1241792
1,1,2-Trichloroethane	U		0.00111	0.00315	1	02/25/2019 16:06	WG1241792
Trichloroethene	U		0.000504	0.00126	1	02/25/2019 16:06	WG1241792
Trichlorofluoromethane	U		0.000630	0.00315	1	02/25/2019 16:06	WG1241792
1,2,3-Trichloropropane	U		0.00643	0.0158	1	02/25/2019 16:06	WG1241792
1,2,4-Trimethylbenzene	0.00447	L	0.00146	0.00630	1	02/25/2019 16:06	WG1241792
1,2,3-Trimethylbenzene	0.00390	L	0.00145	0.00630	1	02/25/2019 16:06	WG1241792
1,3,5-Trimethylbenzene	0.00201	L	0.00136	0.00630	1	02/25/2019 16:06	WG1241792
Vinyl acetate	U		0.00444	0.0158	1	02/25/2019 16:06	WG1241792
Vinyl chloride	U		0.000861	0.00315	1	02/25/2019 16:06	WG1241792
Xylenes, Total	0.00656	L	0.00603	0.00820	1	02/25/2019 16:06	WG1241792
(S) Toluene-d8	99.9			75.0-131		02/25/2019 16:06	WG1241792
(S) Toluene-d8	101			75.0-131		03/02/2019 03:30	WG1244113
(S) 4-Bromofluorobenzene	89.7			67.0-138		02/25/2019 16:06	WG1241792
(S) 4-Bromofluorobenzene	94.5			67.0-138		03/02/2019 03:30	WG1244113
(S) 1,2-Dichloroethane-d4	94.2			70.0-130		02/25/2019 16:06	WG1241792
(S) 1,2-Dichloroethane-d4	90.2			70.0-130		03/02/2019 03:30	WG1244113

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	82.8		1	02/27/2019 16:21	WG1242107

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0165	0.0302	1	02/25/2019 16:25	WG1241792
Acrylonitrile	U		0.00229	0.0151	1	02/25/2019 16:25	WG1241792
Benzene	U		0.000483	0.00121	1	02/25/2019 16:25	WG1241792
Bromobenzene	U		0.00127	0.0151	1	02/25/2019 16:25	WG1241792
Bromodichloromethane	U		0.000952	0.00302	1	02/25/2019 16:25	WG1241792
Bromochloromethane	U		0.00136	0.00604	1	02/25/2019 16:25	WG1241792
Bromoform	U		0.00722	0.0302	1	03/02/2019 03:52	WG1244113
Bromomethane	U	J4	0.00447	0.0151	1	02/25/2019 16:25	WG1241792
n-Butylbenzene	U		0.00464	0.0151	1	02/25/2019 16:25	WG1241792
sec-Butylbenzene	U		0.00306	0.0151	1	02/25/2019 16:25	WG1241792
tert-Butylbenzene	U		0.00187	0.00604	1	02/25/2019 16:25	WG1241792
Carbon disulfide	U		0.00490	0.0151	1	02/25/2019 16:25	WG1241792
Carbon tetrachloride	U		0.00130	0.00604	1	02/25/2019 16:25	WG1241792
Chlorobenzene	U		0.000692	0.00302	1	02/25/2019 16:25	WG1241792
Chlorodibromomethane	U		0.000544	0.00302	1	02/25/2019 16:25	WG1241792
Chloroethane	U		0.00130	0.00604	1	02/25/2019 16:25	WG1241792
Chloroform	U		0.000501	0.00302	1	02/25/2019 16:25	WG1241792
Chloromethane	U		0.00168	0.0151	1	02/25/2019 16:25	WG1241792
2-Chlorotoluene	U		0.00111	0.00302	1	02/25/2019 16:25	WG1241792
4-Chlorotoluene	U		0.00136	0.00604	1	02/25/2019 16:25	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00616	0.0302	1	02/25/2019 16:25	WG1241792
1,2-Dibromoethane	U		0.000634	0.00302	1	02/25/2019 16:25	WG1241792
Dibromomethane	U		0.00121	0.00604	1	02/25/2019 16:25	WG1241792
1,2-Dichlorobenzene	U		0.00175	0.00604	1	02/25/2019 16:25	WG1241792
1,3-Dichlorobenzene	U		0.00205	0.00604	1	02/25/2019 16:25	WG1241792
1,4-Dichlorobenzene	U		0.00238	0.00604	1	02/25/2019 16:25	WG1241792
Dichlorodifluoromethane	U		0.000988	0.00302	1	02/25/2019 16:25	WG1241792
1,1-Dichloroethane	U		0.000694	0.00302	1	02/25/2019 16:25	WG1241792
1,2-Dichloroethane	U		0.000574	0.00302	1	03/02/2019 03:52	WG1244113
1,1-Dichloroethene	U		0.000604	0.00302	1	02/25/2019 16:25	WG1241792
cis-1,2-Dichloroethene	0.339		0.000833	0.00302	1	02/25/2019 16:25	WG1241792
trans-1,2-Dichloroethene	0.00334	J	0.00173	0.00604	1	02/25/2019 16:25	WG1241792
1,2-Dichloropropane	U		0.00153	0.00604	1	02/25/2019 16:25	WG1241792
1,1-Dichloropropene	U		0.000845	0.00302	1	02/25/2019 16:25	WG1241792
1,3-Dichloropropane	U		0.00211	0.00604	1	02/25/2019 16:25	WG1241792
cis-1,3-Dichloropropene	U		0.000819	0.00302	1	02/25/2019 16:25	WG1241792
trans-1,3-Dichloropropene	U		0.00185	0.00604	1	02/25/2019 16:25	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00169	0.00604	1	02/25/2019 16:25	WG1241792
2,2-Dichloropropane	U		0.000958	0.00302	1	02/25/2019 16:25	WG1241792
Di-isopropyl ether	U		0.000423	0.00121	1	02/25/2019 16:25	WG1241792
Ethylbenzene	U		0.000640	0.00302	1	02/25/2019 16:25	WG1241792
Hexachloro-1,3-butadiene	U		0.0153	0.0302	1	02/25/2019 16:25	WG1241792
2-Hexanone	U		0.0121	0.0302	1	02/25/2019 16:25	WG1241792
n-Hexane	0.00135	B J	0.00128	0.00604	1	02/25/2019 16:25	WG1241792
Iodomethane	U		0.00731	0.0151	1	02/25/2019 16:25	WG1241792
Isopropylbenzene	U		0.00104	0.00302	1	02/25/2019 16:25	WG1241792
p-Isopropyltoluene	U		0.00281	0.00604	1	02/25/2019 16:25	WG1241792
2-Butanone (MEK)	U		0.0151	0.0302	1	02/25/2019 16:25	WG1241792
Methylene Chloride	U		0.00802	0.0302	1	02/25/2019 16:25	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0121	0.0302	1	02/25/2019 16:25	WG1241792

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/21/19 14:45

L1072936

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U	<u>J0</u>	0.000356	0.00121	1	02/25/2019 16:25	WG1241792
Naphthalene	U		0.00377	0.0151	1	02/25/2019 16:25	WG1241792
n-Propylbenzene	U		0.00143	0.00604	1	02/25/2019 16:25	WG1241792
Styrene	U	<u>J4</u>	0.00330	0.0151	1	02/25/2019 16:25	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000604	0.00302	1	02/25/2019 16:25	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000471	0.00302	1	02/25/2019 16:25	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000815	0.00302	1	02/25/2019 16:25	WG1241792
Tetrachloroethene	0.00726		0.000845	0.00302	1	02/25/2019 16:25	WG1241792
Toluene	U		0.00151	0.00604	1	02/25/2019 16:25	WG1241792
1,2,3-Trichlorobenzene	U		0.000755	0.00302	1	02/25/2019 16:25	WG1241792
1,2,4-Trichlorobenzene	U		0.00582	0.0151	1	02/25/2019 16:25	WG1241792
1,1,1-Trichloroethane	U		0.000332	0.00302	1	02/25/2019 16:25	WG1241792
1,1,2-Trichloroethane	U		0.00107	0.00302	1	02/25/2019 16:25	WG1241792
Trichloroethene	0.00164		0.000483	0.00121	1	02/25/2019 16:25	WG1241792
Trichlorofluoromethane	U		0.000604	0.00302	1	02/25/2019 16:25	WG1241792
1,2,3-Trichloropropane	U		0.00616	0.0151	1	02/25/2019 16:25	WG1241792
1,2,4-Trimethylbenzene	U		0.00140	0.00604	1	02/25/2019 16:25	WG1241792
1,2,3-Trimethylbenzene	U		0.00139	0.00604	1	02/25/2019 16:25	WG1241792
1,3,5-Trimethylbenzene	U		0.00130	0.00604	1	02/25/2019 16:25	WG1241792
Vinyl acetate	U		0.00425	0.0151	1	02/25/2019 16:25	WG1241792
Vinyl chloride	U		0.000825	0.00302	1	02/25/2019 16:25	WG1241792
Xylenes, Total	U		0.00577	0.00785	1	02/25/2019 16:25	WG1241792
(S) Toluene-d8	97.2			75.0-131		02/25/2019 16:25	WG1241792
(S) Toluene-d8	104			75.0-131		03/02/2019 03:52	WG1244113
(S) 4-Bromofluorobenzene	91.3			67.0-138		02/25/2019 16:25	WG1241792
(S) 4-Bromofluorobenzene	94.1			67.0-138		03/02/2019 03:52	WG1244113
(S) 1,2-Dichloroethane-d4	97.1			70.0-130		02/25/2019 16:25	WG1241792
(S) 1,2-Dichloroethane-d4	85.4			70.0-130		03/02/2019 03:52	WG1244113

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.5		1	02/27/2019 16:04	WG1242109

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0155	0.0283	1	02/25/2019 16:45	WG1241792
Acrylonitrile	U		0.00215	0.0141	1	02/25/2019 16:45	WG1241792
Benzene	U		0.000452	0.00113	1	02/25/2019 16:45	WG1241792
Bromobenzene	U		0.00119	0.0141	1	02/25/2019 16:45	WG1241792
Bromodichloromethane	U		0.000890	0.00283	1	02/25/2019 16:45	WG1241792
Bromochloromethane	U		0.00128	0.00565	1	02/25/2019 16:45	WG1241792
Bromoform	U		0.0676	0.283	10	03/02/2019 06:06	WG1244113
Bromomethane	U	J4	0.00418	0.0141	1	02/25/2019 16:45	WG1241792
n-Butylbenzene	U		0.00434	0.0141	1	02/25/2019 16:45	WG1241792
sec-Butylbenzene	U		0.00286	0.0141	1	02/25/2019 16:45	WG1241792
tert-Butylbenzene	U		0.00175	0.00565	1	02/25/2019 16:45	WG1241792
Carbon disulfide	U		0.00459	0.0141	1	02/25/2019 16:45	WG1241792
Carbon tetrachloride	U		0.00122	0.00565	1	02/25/2019 16:45	WG1241792
Chlorobenzene	U		0.000647	0.00283	1	02/25/2019 16:45	WG1241792
Chlorodibromomethane	U		0.000509	0.00283	1	02/25/2019 16:45	WG1241792
Chloroethane	U		0.00122	0.00565	1	02/25/2019 16:45	WG1241792
Chloroform	U		0.000469	0.00283	1	02/25/2019 16:45	WG1241792
Chloromethane	U		0.00157	0.0141	1	02/25/2019 16:45	WG1241792
2-Chlorotoluene	U		0.00104	0.00283	1	02/25/2019 16:45	WG1241792
4-Chlorotoluene	U		0.00128	0.00565	1	02/25/2019 16:45	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00576	0.0283	1	02/25/2019 16:45	WG1241792
1,2-Dibromoethane	U		0.000593	0.00283	1	02/25/2019 16:45	WG1241792
Dibromomethane	U		0.00113	0.00565	1	02/25/2019 16:45	WG1241792
1,2-Dichlorobenzene	U		0.00164	0.00565	1	02/25/2019 16:45	WG1241792
1,3-Dichlorobenzene	U		0.00192	0.00565	1	02/25/2019 16:45	WG1241792
1,4-Dichlorobenzene	U		0.00223	0.00565	1	02/25/2019 16:45	WG1241792
Dichlorodifluoromethane	U		0.000924	0.00283	1	02/25/2019 16:45	WG1241792
1,1-Dichloroethane	U		0.000650	0.00283	1	02/25/2019 16:45	WG1241792
1,2-Dichloroethane	U		0.00537	0.0283	10	03/02/2019 06:06	WG1244113
1,1-Dichloroethene	0.00219	J	0.000565	0.00283	1	02/25/2019 16:45	WG1241792
cis-1,2-Dichloroethene	0.196		0.000780	0.00283	1	02/25/2019 16:45	WG1241792
trans-1,2-Dichloroethene	0.00652		0.00162	0.00565	1	02/25/2019 16:45	WG1241792
1,2-Dichloropropane	U		0.00144	0.00565	1	02/25/2019 16:45	WG1241792
1,1-Dichloropropene	U		0.000791	0.00283	1	02/25/2019 16:45	WG1241792
1,3-Dichloropropane	U		0.00198	0.00565	1	02/25/2019 16:45	WG1241792
cis-1,3-Dichloropropene	U		0.000766	0.00283	1	02/25/2019 16:45	WG1241792
trans-1,3-Dichloropropene	U		0.00173	0.00565	1	02/25/2019 16:45	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00158	0.00565	1	02/25/2019 16:45	WG1241792
2,2-Dichloropropane	U		0.000896	0.00283	1	02/25/2019 16:45	WG1241792
Di-isopropyl ether	U		0.000396	0.00113	1	02/25/2019 16:45	WG1241792
Ethylbenzene	U		0.000599	0.00283	1	02/25/2019 16:45	WG1241792
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	02/25/2019 16:45	WG1241792
2-Hexanone	U		0.0113	0.0283	1	02/25/2019 16:45	WG1241792
n-Hexane	U		0.00120	0.00565	1	02/25/2019 16:45	WG1241792
Iodomethane	U		0.00684	0.0141	1	02/25/2019 16:45	WG1241792
Isopropylbenzene	U		0.000975	0.00283	1	02/25/2019 16:45	WG1241792
p-Isopropyltoluene	U		0.00263	0.00565	1	02/25/2019 16:45	WG1241792
2-Butanone (MEK)	U		0.0141	0.0283	1	02/25/2019 16:45	WG1241792
Methylene Chloride	U		0.00750	0.0283	1	02/25/2019 16:45	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	02/25/2019 16:45	WG1241792

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	0.000333	0.00113	1	02/25/2019 16:45	WG1241792
Naphthalene	U		0.00353	0.0141	1	02/25/2019 16:45	WG1241792
n-Propylbenzene	U		0.00133	0.00565	1	02/25/2019 16:45	WG1241792
Styrene	U	J4	0.00308	0.0141	1	02/25/2019 16:45	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000565	0.00283	1	02/25/2019 16:45	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000441	0.00283	1	02/25/2019 16:45	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000763	0.00283	1	02/25/2019 16:45	WG1241792
Tetrachloroethene	1.89		0.00791	0.0283	10	03/02/2019 06:06	WG1244113
Toluene	0.00185	J	0.00141	0.00565	1	02/25/2019 16:45	WG1241792
1,2,3-Trichlorobenzene	U		0.000706	0.00283	1	02/25/2019 16:45	WG1241792
1,2,4-Trichlorobenzene	U		0.00545	0.0141	1	02/25/2019 16:45	WG1241792
1,1,1-Trichloroethane	U		0.000311	0.00283	1	02/25/2019 16:45	WG1241792
1,1,2-Trichloroethane	U		0.000998	0.00283	1	02/25/2019 16:45	WG1241792
Trichloroethene	0.419		0.000452	0.00113	1	02/25/2019 16:45	WG1241792
Trichlorofluoromethane	U		0.000565	0.00283	1	02/25/2019 16:45	WG1241792
1,2,3-Trichloropropane	U		0.00576	0.0141	1	02/25/2019 16:45	WG1241792
1,2,4-Trimethylbenzene	U		0.00131	0.00565	1	02/25/2019 16:45	WG1241792
1,2,3-Trimethylbenzene	U		0.00130	0.00565	1	02/25/2019 16:45	WG1241792
1,3,5-Trimethylbenzene	U		0.00122	0.00565	1	02/25/2019 16:45	WG1241792
Vinyl acetate	U		0.00398	0.0141	1	02/25/2019 16:45	WG1241792
Vinyl chloride	U		0.000772	0.00283	1	02/25/2019 16:45	WG1241792
Xylenes, Total	U		0.00540	0.00735	1	02/25/2019 16:45	WG1241792
(S) Toluene-d8	103			75.0-131		02/25/2019 16:45	WG1241792
(S) Toluene-d8	121			75.0-131		03/02/2019 06:06	WG1244113
(S) 4-Bromofluorobenzene	87.1			67.0-138		02/25/2019 16:45	WG1241792
(S) 4-Bromofluorobenzene	90.6			67.0-138		03/02/2019 06:06	WG1244113
(S) 1,2-Dichloroethane-d4	97.9			70.0-130		02/25/2019 16:45	WG1241792
(S) 1,2-Dichloroethane-d4	93.6			70.0-130		03/02/2019 06:06	WG1244113

Sample Narrative:

L1072936-12 WG1241792, WG1244113: Not all compounds reportable at lower dilution,

L1072936-12 WG1241792, WG1244113: Cannot be reanalyzed at lower dilution due to high levels of target analytes.

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	89.1		1	02/27/2019 16:04	WG1242109

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0154	0.0281	1	02/25/2019 17:05	WG1241792
Acrylonitrile	U		0.00213	0.0140	1	02/25/2019 17:05	WG1241792
Benzene	U		0.000449	0.00112	1	02/25/2019 17:05	WG1241792
Bromobenzene	U		0.00118	0.0140	1	02/25/2019 17:05	WG1241792
Bromodichloromethane	U		0.000885	0.00281	1	02/25/2019 17:05	WG1241792
Bromochloromethane	U		0.00127	0.00561	1	02/25/2019 17:05	WG1241792
Bromoform	U		0.135	0.561	20	03/02/2019 06:28	WG1244113
Bromomethane	U	J4	0.00415	0.0140	1	02/25/2019 17:05	WG1241792
n-Butylbenzene	U		0.00431	0.0140	1	02/25/2019 17:05	WG1241792
sec-Butylbenzene	U		0.00284	0.0140	1	02/25/2019 17:05	WG1241792
tert-Butylbenzene	U		0.00174	0.00561	1	02/25/2019 17:05	WG1241792
Carbon disulfide	U		0.00456	0.0140	1	02/25/2019 17:05	WG1241792
Carbon tetrachloride	U		0.00121	0.00561	1	02/25/2019 17:05	WG1241792
Chlorobenzene	U		0.000643	0.00281	1	02/25/2019 17:05	WG1241792
Chlorodibromomethane	U		0.000505	0.00281	1	02/25/2019 17:05	WG1241792
Chloroethane	U		0.00121	0.00561	1	02/25/2019 17:05	WG1241792
Chloroform	U		0.000466	0.00281	1	02/25/2019 17:05	WG1241792
Chloromethane	U		0.00156	0.0140	1	02/25/2019 17:05	WG1241792
2-Chlorotoluene	U		0.00103	0.00281	1	02/25/2019 17:05	WG1241792
4-Chlorotoluene	U		0.00127	0.00561	1	02/25/2019 17:05	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00573	0.0281	1	02/25/2019 17:05	WG1241792
1,2-Dibromoethane	U		0.000590	0.00281	1	02/25/2019 17:05	WG1241792
Dibromomethane	U		0.00112	0.00561	1	02/25/2019 17:05	WG1241792
1,2-Dichlorobenzene	U		0.00163	0.00561	1	02/25/2019 17:05	WG1241792
1,3-Dichlorobenzene	U		0.00191	0.00561	1	02/25/2019 17:05	WG1241792
1,4-Dichlorobenzene	U		0.00221	0.00561	1	02/25/2019 17:05	WG1241792
Dichlorodifluoromethane	U		0.000919	0.00281	1	02/25/2019 17:05	WG1241792
1,1-Dichloroethane	U		0.000646	0.00281	1	02/25/2019 17:05	WG1241792
1,2-Dichloroethane	U		0.0107	0.0561	20	03/02/2019 06:28	WG1244113
1,1-Dichloroethene	0.00332		0.000561	0.00281	1	02/25/2019 17:05	WG1241792
cis-1,2-Dichloroethene	0.409		0.000775	0.00281	1	02/25/2019 17:05	WG1241792
trans-1,2-Dichloroethene	0.00837		0.00161	0.00561	1	02/25/2019 17:05	WG1241792
1,2-Dichloropropane	U		0.00143	0.00561	1	02/25/2019 17:05	WG1241792
1,1-Dichloropropene	U		0.000786	0.00281	1	02/25/2019 17:05	WG1241792
1,3-Dichloropropane	U		0.00197	0.00561	1	02/25/2019 17:05	WG1241792
cis-1,3-Dichloropropene	U		0.000761	0.00281	1	02/25/2019 17:05	WG1241792
trans-1,3-Dichloropropene	U		0.00172	0.00561	1	02/25/2019 17:05	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00157	0.00561	1	02/25/2019 17:05	WG1241792
2,2-Dichloropropane	U		0.000890	0.00281	1	02/25/2019 17:05	WG1241792
Di-isopropyl ether	U		0.000393	0.00112	1	02/25/2019 17:05	WG1241792
Ethylbenzene	U		0.000595	0.00281	1	02/25/2019 17:05	WG1241792
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	02/25/2019 17:05	WG1241792
2-Hexanone	U		0.0112	0.0281	1	02/25/2019 17:05	WG1241792
n-Hexane	0.00164	B J	0.00119	0.00561	1	02/25/2019 17:05	WG1241792
Iodomethane	U		0.00679	0.0140	1	02/25/2019 17:05	WG1241792
Isopropylbenzene	U		0.000969	0.00281	1	02/25/2019 17:05	WG1241792
p-Isopropyltoluene	U		0.00262	0.00561	1	02/25/2019 17:05	WG1241792
2-Butanone (MEK)	U		0.0140	0.0281	1	02/25/2019 17:05	WG1241792
Methylene Chloride	U		0.00746	0.0281	1	02/25/2019 17:05	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	02/25/2019 17:05	WG1241792

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/21/19 14:53

L1072936

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

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	0.000331	0.00112	1	02/25/2019 17:05	WG1241792
Naphthalene	U		0.00350	0.0140	1	02/25/2019 17:05	WG1241792
n-Propylbenzene	U		0.00132	0.00561	1	02/25/2019 17:05	WG1241792
Styrene	U	J4	0.00307	0.0140	1	02/25/2019 17:05	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000561	0.00281	1	02/25/2019 17:05	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000438	0.00281	1	02/25/2019 17:05	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000758	0.00281	1	02/25/2019 17:05	WG1241792
Tetrachloroethene	1.03		0.0157	0.0561	20	03/02/2019 06:28	WG1244113
Toluene	U		0.00140	0.00561	1	02/25/2019 17:05	WG1241792
1,2,3-Trichlorobenzene	U		0.000702	0.00281	1	02/25/2019 17:05	WG1241792
1,2,4-Trichlorobenzene	U		0.00541	0.0140	1	02/25/2019 17:05	WG1241792
1,1,1-Trichloroethane	U		0.000309	0.00281	1	02/25/2019 17:05	WG1241792
1,1,2-Trichloroethane	U		0.000991	0.00281	1	02/25/2019 17:05	WG1241792
Trichloroethene	0.603		0.000449	0.00112	1	02/25/2019 17:05	WG1241792
Trichlorofluoromethane	U		0.000561	0.00281	1	02/25/2019 17:05	WG1241792
1,2,3-Trichloropropane	U		0.00573	0.0140	1	02/25/2019 17:05	WG1241792
1,2,4-Trimethylbenzene	U		0.00130	0.00561	1	02/25/2019 17:05	WG1241792
1,2,3-Trimethylbenzene	U		0.00129	0.00561	1	02/25/2019 17:05	WG1241792
1,3,5-Trimethylbenzene	U		0.00121	0.00561	1	02/25/2019 17:05	WG1241792
Vinyl acetate	U		0.00395	0.0140	1	02/25/2019 17:05	WG1241792
Vinyl chloride	U		0.000767	0.00281	1	02/25/2019 17:05	WG1241792
Xylenes, Total	U		0.00537	0.00730	1	02/25/2019 17:05	WG1241792
(S) Toluene-d8	104			75.0-131		02/25/2019 17:05	WG1241792
(S) Toluene-d8	99.9			75.0-131		03/02/2019 06:28	WG1244113
(S) 4-Bromofluorobenzene	90.2			67.0-138		02/25/2019 17:05	WG1241792
(S) 4-Bromofluorobenzene	94.9			67.0-138		03/02/2019 06:28	WG1244113
(S) 1,2-Dichloroethane-d4	96.8			70.0-130		02/25/2019 17:05	WG1241792
(S) 1,2-Dichloroethane-d4	92.1			70.0-130		03/02/2019 06:28	WG1244113

Sample Narrative:

L1072936-13 WG1241792, WG1244113: Not all compounds reportable at lower dilution,

L1072936-13 WG1241792, WG1244113: Cannot be reanalyzed at lower dilution due to high levels of target analytes.

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	91.1		1	02/27/2019 16:04	WG1242109

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0150	0.0274	1	02/25/2019 17:24	WG1241792
Acrylonitrile	U		0.00209	0.0137	1	02/25/2019 17:24	WG1241792
Benzene	U		0.000439	0.00110	1	02/25/2019 17:24	WG1241792
Bromobenzene	U		0.00115	0.0137	1	02/25/2019 17:24	WG1241792
Bromodichloromethane	U		0.000865	0.00274	1	02/25/2019 17:24	WG1241792
Bromochloromethane	U		0.00124	0.00549	1	02/25/2019 17:24	WG1241792
Bromoform	U		0.00656	0.0274	1	03/02/2019 04:14	WG1244113
Bromomethane	U	J4	0.00406	0.0137	1	02/25/2019 17:24	WG1241792
n-Butylbenzene	U		0.00422	0.0137	1	02/25/2019 17:24	WG1241792
sec-Butylbenzene	U		0.00278	0.0137	1	02/25/2019 17:24	WG1241792
tert-Butylbenzene	U		0.00170	0.00549	1	02/25/2019 17:24	WG1241792
Carbon disulfide	U		0.00446	0.0137	1	02/25/2019 17:24	WG1241792
Carbon tetrachloride	U		0.00119	0.00549	1	02/25/2019 17:24	WG1241792
Chlorobenzene	U		0.000629	0.00274	1	02/25/2019 17:24	WG1241792
Chlorodibromomethane	U		0.000494	0.00274	1	02/25/2019 17:24	WG1241792
Chloroethane	U		0.00119	0.00549	1	02/25/2019 17:24	WG1241792
Chloroform	U		0.000456	0.00274	1	02/25/2019 17:24	WG1241792
Chloromethane	U		0.00153	0.0137	1	02/25/2019 17:24	WG1241792
2-Chlorotoluene	U		0.00101	0.00274	1	02/25/2019 17:24	WG1241792
4-Chlorotoluene	U		0.00124	0.00549	1	02/25/2019 17:24	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00560	0.0274	1	02/25/2019 17:24	WG1241792
1,2-Dibromoethane	U		0.000576	0.00274	1	02/25/2019 17:24	WG1241792
Dibromomethane	U		0.00110	0.00549	1	02/25/2019 17:24	WG1241792
1,2-Dichlorobenzene	U		0.00159	0.00549	1	02/25/2019 17:24	WG1241792
1,3-Dichlorobenzene	U		0.00187	0.00549	1	02/25/2019 17:24	WG1241792
1,4-Dichlorobenzene	U		0.00216	0.00549	1	02/25/2019 17:24	WG1241792
Dichlorodifluoromethane	U		0.000898	0.00274	1	02/25/2019 17:24	WG1241792
1,1-Dichloroethane	U		0.000631	0.00274	1	02/25/2019 17:24	WG1241792
1,2-Dichloroethane	U		0.000521	0.00274	1	03/02/2019 04:14	WG1244113
1,1-Dichloroethene	0.00269	J	0.000549	0.00274	1	02/25/2019 17:24	WG1241792
cis-1,2-Dichloroethene	0.995		0.000757	0.00274	1	02/25/2019 17:24	WG1241792
trans-1,2-Dichloroethene	0.00238	J	0.00157	0.00549	1	02/25/2019 17:24	WG1241792
1,2-Dichloropropane	U		0.00139	0.00549	1	02/25/2019 17:24	WG1241792
1,1-Dichloropropene	U		0.000768	0.00274	1	02/25/2019 17:24	WG1241792
1,3-Dichloropropane	U		0.00192	0.00549	1	02/25/2019 17:24	WG1241792
cis-1,3-Dichloropropene	U		0.000744	0.00274	1	02/25/2019 17:24	WG1241792
trans-1,3-Dichloropropene	U		0.00168	0.00549	1	02/25/2019 17:24	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00154	0.00549	1	02/25/2019 17:24	WG1241792
2,2-Dichloropropane	U		0.000871	0.00274	1	02/25/2019 17:24	WG1241792
Di-isopropyl ether	U		0.000384	0.00110	1	02/25/2019 17:24	WG1241792
Ethylbenzene	U		0.000582	0.00274	1	02/25/2019 17:24	WG1241792
Hexachloro-1,3-butadiene	U		0.0139	0.0274	1	02/25/2019 17:24	WG1241792
2-Hexanone	U		0.0110	0.0274	1	02/25/2019 17:24	WG1241792
n-Hexane	U		0.00116	0.00549	1	02/25/2019 17:24	WG1241792
Iodomethane	U		0.00664	0.0137	1	02/25/2019 17:24	WG1241792
Isopropylbenzene	U		0.000947	0.00274	1	02/25/2019 17:24	WG1241792
p-Isopropyltoluene	U		0.00256	0.00549	1	02/25/2019 17:24	WG1241792
2-Butanone (MEK)	U		0.0137	0.0274	1	02/25/2019 17:24	WG1241792
Methylene Chloride	U		0.00729	0.0274	1	02/25/2019 17:24	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0274	1	02/25/2019 17:24	WG1241792

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/21/19 14:55

L1072936

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

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	0.000324	0.00110	1	02/25/2019 17:24	WG1241792
Naphthalene	U		0.00343	0.0137	1	02/25/2019 17:24	WG1241792
n-Propylbenzene	U		0.00130	0.00549	1	02/25/2019 17:24	WG1241792
Styrene	U	J4	0.00300	0.0137	1	02/25/2019 17:24	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000549	0.00274	1	02/25/2019 17:24	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000428	0.00274	1	02/25/2019 17:24	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000741	0.00274	1	02/25/2019 17:24	WG1241792
Tetrachloroethene	0.0809		0.000768	0.00274	1	03/02/2019 04:14	WG1244113
Toluene	0.00154	J	0.00137	0.00549	1	02/25/2019 17:24	WG1241792
1,2,3-Trichlorobenzene	U		0.000686	0.00274	1	02/25/2019 17:24	WG1241792
1,2,4-Trichlorobenzene	U		0.00529	0.0137	1	02/25/2019 17:24	WG1241792
1,1,1-Trichloroethane	U		0.000302	0.00274	1	02/25/2019 17:24	WG1241792
1,1,2-Trichloroethane	U		0.000969	0.00274	1	02/25/2019 17:24	WG1241792
Trichloroethene	0.418		0.000439	0.00110	1	02/25/2019 17:24	WG1241792
Trichlorofluoromethane	U		0.000549	0.00274	1	02/25/2019 17:24	WG1241792
1,2,3-Trichloropropane	U		0.00560	0.0137	1	02/25/2019 17:24	WG1241792
1,2,4-Trimethylbenzene	U		0.00127	0.00549	1	02/25/2019 17:24	WG1241792
1,2,3-Trimethylbenzene	U		0.00126	0.00549	1	02/25/2019 17:24	WG1241792
1,3,5-Trimethylbenzene	U		0.00119	0.00549	1	02/25/2019 17:24	WG1241792
Vinyl acetate	U		0.00386	0.0137	1	02/25/2019 17:24	WG1241792
Vinyl chloride	U		0.000750	0.00274	1	02/25/2019 17:24	WG1241792
Xylenes, Total	U		0.00525	0.00714	1	02/25/2019 17:24	WG1241792
(S) Toluene-d8	103			75.0-131		02/25/2019 17:24	WG1241792
(S) Toluene-d8	126			75.0-131		03/02/2019 04:14	WG1244113
(S) 4-Bromofluorobenzene	88.9			67.0-138		02/25/2019 17:24	WG1241792
(S) 4-Bromofluorobenzene	95.3			67.0-138		03/02/2019 04:14	WG1244113
(S) 1,2-Dichloroethane-d4	104			70.0-130		02/25/2019 17:24	WG1241792
(S) 1,2-Dichloroethane-d4	92.0			70.0-130		03/02/2019 04:14	WG1244113

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	87.6		1	02/27/2019 16:04	WG1242109

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0156	0.0286	1	02/25/2019 17:44	WG1241792
Acrylonitrile	U		0.00217	0.0143	1	02/25/2019 17:44	WG1241792
Benzene	U		0.000457	0.00114	1	02/25/2019 17:44	WG1241792
Bromobenzene	U		0.00120	0.0143	1	02/25/2019 17:44	WG1241792
Bromodichloromethane	U		0.000900	0.00286	1	02/25/2019 17:44	WG1241792
Bromochloromethane	U		0.00129	0.00571	1	02/25/2019 17:44	WG1241792
Bromoform	U		0.00683	0.0286	1	03/02/2019 04:37	WG1244113
Bromomethane	U	J4	0.00423	0.0143	1	02/25/2019 17:44	WG1241792
n-Butylbenzene	U		0.00439	0.0143	1	02/25/2019 17:44	WG1241792
sec-Butylbenzene	U		0.00289	0.0143	1	02/25/2019 17:44	WG1241792
tert-Butylbenzene	U		0.00177	0.00571	1	02/25/2019 17:44	WG1241792
Carbon disulfide	U		0.00464	0.0143	1	02/25/2019 17:44	WG1241792
Carbon tetrachloride	U		0.00123	0.00571	1	02/25/2019 17:44	WG1241792
Chlorobenzene	U		0.000654	0.00286	1	02/25/2019 17:44	WG1241792
Chlorodibromomethane	U		0.000514	0.00286	1	02/25/2019 17:44	WG1241792
Chloroethane	U		0.00123	0.00571	1	02/25/2019 17:44	WG1241792
Chloroform	U		0.000474	0.00286	1	02/25/2019 17:44	WG1241792
Chloromethane	U		0.00159	0.0143	1	02/25/2019 17:44	WG1241792
2-Chlorotoluene	U		0.00105	0.00286	1	02/25/2019 17:44	WG1241792
4-Chlorotoluene	U		0.00129	0.00571	1	02/25/2019 17:44	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00582	0.0286	1	02/25/2019 17:44	WG1241792
1,2-Dibromoethane	U		0.000600	0.00286	1	02/25/2019 17:44	WG1241792
Dibromomethane	U		0.00114	0.00571	1	02/25/2019 17:44	WG1241792
1,2-Dichlorobenzene	U		0.00166	0.00571	1	02/25/2019 17:44	WG1241792
1,3-Dichlorobenzene	U		0.00194	0.00571	1	02/25/2019 17:44	WG1241792
1,4-Dichlorobenzene	U		0.00225	0.00571	1	02/25/2019 17:44	WG1241792
Dichlorodifluoromethane	U		0.000934	0.00286	1	02/25/2019 17:44	WG1241792
1,1-Dichloroethane	U		0.000657	0.00286	1	02/25/2019 17:44	WG1241792
1,2-Dichloroethane	U		0.000542	0.00286	1	03/02/2019 04:37	WG1244113
1,1-Dichloroethene	0.00222	J	0.000571	0.00286	1	02/25/2019 17:44	WG1241792
cis-1,2-Dichloroethene	0.694		0.000788	0.00286	1	02/25/2019 17:44	WG1241792
trans-1,2-Dichloroethene	U		0.00163	0.00571	1	02/25/2019 17:44	WG1241792
1,2-Dichloropropane	U		0.00145	0.00571	1	02/25/2019 17:44	WG1241792
1,1-Dichloropropene	U		0.000799	0.00286	1	02/25/2019 17:44	WG1241792
1,3-Dichloropropane	U		0.00200	0.00571	1	02/25/2019 17:44	WG1241792
cis-1,3-Dichloropropene	U		0.000774	0.00286	1	02/25/2019 17:44	WG1241792
trans-1,3-Dichloropropene	U		0.00175	0.00571	1	02/25/2019 17:44	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00160	0.00571	1	02/25/2019 17:44	WG1241792
2,2-Dichloropropane	U		0.000906	0.00286	1	02/25/2019 17:44	WG1241792
Di-isopropyl ether	U		0.000400	0.00114	1	02/25/2019 17:44	WG1241792
Ethylbenzene	U		0.000605	0.00286	1	02/25/2019 17:44	WG1241792
Hexachloro-1,3-butadiene	U		0.0145	0.0286	1	02/25/2019 17:44	WG1241792
2-Hexanone	U		0.0114	0.0286	1	02/25/2019 17:44	WG1241792
n-Hexane	0.00199	B J	0.00121	0.00571	1	02/25/2019 17:44	WG1241792
Iodomethane	U		0.00691	0.0143	1	02/25/2019 17:44	WG1241792
Isopropylbenzene	U		0.000986	0.00286	1	02/25/2019 17:44	WG1241792
p-Isopropyltoluene	U		0.00266	0.00571	1	02/25/2019 17:44	WG1241792
2-Butanone (MEK)	U		0.0143	0.0286	1	02/25/2019 17:44	WG1241792
Methylene Chloride	U		0.00758	0.0286	1	02/25/2019 17:44	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0286	1	02/25/2019 17:44	WG1241792

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	0.000337	0.00114	1	02/25/2019 17:44	WG1241792
Naphthalene	U		0.00356	0.0143	1	02/25/2019 17:44	WG1241792
n-Propylbenzene	U		0.00135	0.00571	1	02/25/2019 17:44	WG1241792
Styrene	U	J4	0.00312	0.0143	1	02/25/2019 17:44	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000571	0.00286	1	02/25/2019 17:44	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000445	0.00286	1	02/25/2019 17:44	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000771	0.00286	1	02/25/2019 17:44	WG1241792
Tetrachloroethene	0.0210		0.000799	0.00286	1	03/02/2019 04:37	WG1244113
Toluene	0.00166	J	0.00143	0.00571	1	02/25/2019 17:44	WG1241792
1,2,3-Trichlorobenzene	U		0.000714	0.00286	1	02/25/2019 17:44	WG1241792
1,2,4-Trichlorobenzene	U		0.00550	0.0143	1	02/25/2019 17:44	WG1241792
1,1,1-Trichloroethane	U		0.000314	0.00286	1	02/25/2019 17:44	WG1241792
1,1,2-Trichloroethane	U		0.00101	0.00286	1	02/25/2019 17:44	WG1241792
Trichloroethene	0.0552		0.000457	0.00114	1	02/25/2019 17:44	WG1241792
Trichlorofluoromethane	U		0.000571	0.00286	1	02/25/2019 17:44	WG1241792
1,2,3-Trichloropropane	U		0.00582	0.0143	1	02/25/2019 17:44	WG1241792
1,2,4-Trimethylbenzene	U		0.00132	0.00571	1	02/25/2019 17:44	WG1241792
1,2,3-Trimethylbenzene	U		0.00131	0.00571	1	02/25/2019 17:44	WG1241792
1,3,5-Trimethylbenzene	U		0.00123	0.00571	1	02/25/2019 17:44	WG1241792
Vinyl acetate	U		0.00402	0.0143	1	02/25/2019 17:44	WG1241792
Vinyl chloride	U		0.000780	0.00286	1	02/25/2019 17:44	WG1241792
Xylenes, Total	U		0.00546	0.00742	1	02/25/2019 17:44	WG1241792
(S) Toluene-d8	100			75.0-131		02/25/2019 17:44	WG1241792
(S) Toluene-d8	102			75.0-131		03/02/2019 04:37	WG1244113
(S) 4-Bromofluorobenzene	89.1			67.0-138		02/25/2019 17:44	WG1241792
(S) 4-Bromofluorobenzene	94.0			67.0-138		03/02/2019 04:37	WG1244113
(S) 1,2-Dichloroethane-d4	100			70.0-130		02/25/2019 17:44	WG1241792
(S) 1,2-Dichloroethane-d4	86.4			70.0-130		03/02/2019 04:37	WG1244113

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	92.5		1	02/27/2019 16:04	WG1242109

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.240	0.438	16.2	02/25/2019 18:04	WG1241792
Acrylonitrile	U		0.0333	0.219	16.2	02/25/2019 18:04	WG1241792
Benzene	U		0.00701	0.0175	16.2	02/25/2019 18:04	WG1241792
Bromobenzene	U		0.0184	0.219	16.2	02/25/2019 18:04	WG1241792
Bromodichloromethane	U		0.0138	0.0438	16.2	02/25/2019 18:04	WG1241792
Bromochloromethane	U		0.0198	0.0876	16.2	02/25/2019 18:04	WG1241792
Bromoform	U		0.0647	0.270	10	03/02/2019 04:59	WG1244113
Bromomethane	U	J4	0.0648	0.219	16.2	02/25/2019 18:04	WG1241792
n-Butylbenzene	U		0.0673	0.219	16.2	02/25/2019 18:04	WG1241792
sec-Butylbenzene	U		0.0443	0.219	16.2	02/25/2019 18:04	WG1241792
tert-Butylbenzene	U		0.0271	0.0876	16.2	02/25/2019 18:04	WG1241792
Carbon disulfide	U		0.0711	0.219	16.2	02/25/2019 18:04	WG1241792
Carbon tetrachloride	U		0.0189	0.0876	16.2	02/25/2019 18:04	WG1241792
Chlorobenzene	U		0.0100	0.0438	16.2	02/25/2019 18:04	WG1241792
Chlorodibromomethane	U		0.00788	0.0438	16.2	02/25/2019 18:04	WG1241792
Chloroethane	U		0.0189	0.0876	16.2	02/25/2019 18:04	WG1241792
Chloroform	U		0.00727	0.0438	16.2	02/25/2019 18:04	WG1241792
Chloromethane	U		0.0243	0.219	16.2	02/25/2019 18:04	WG1241792
2-Chlorotoluene	U		0.0161	0.0438	16.2	02/25/2019 18:04	WG1241792
4-Chlorotoluene	U		0.0198	0.0876	16.2	02/25/2019 18:04	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.0893	0.438	16.2	02/25/2019 18:04	WG1241792
1,2-Dibromoethane	U		0.00919	0.0438	16.2	02/25/2019 18:04	WG1241792
Dibromomethane	U		0.0175	0.0876	16.2	02/25/2019 18:04	WG1241792
1,2-Dichlorobenzene	U		0.0254	0.0876	16.2	02/25/2019 18:04	WG1241792
1,3-Dichlorobenzene	U		0.0297	0.0876	16.2	02/25/2019 18:04	WG1241792
1,4-Dichlorobenzene	U		0.0345	0.0876	16.2	02/25/2019 18:04	WG1241792
Dichlorodifluoromethane	U		0.0143	0.0438	16.2	02/25/2019 18:04	WG1241792
1,1-Dichloroethane	U		0.0101	0.0438	16.2	02/25/2019 18:04	WG1241792
1,2-Dichloroethane	U		0.00514	0.0270	10	03/02/2019 04:59	WG1244113
1,1-Dichloroethene	U		0.00876	0.0438	16.2	02/25/2019 18:04	WG1241792
cis-1,2-Dichloroethene	0.209		0.0121	0.0438	16.2	02/25/2019 18:04	WG1241792
trans-1,2-Dichloroethene	U		0.0251	0.0876	16.2	02/25/2019 18:04	WG1241792
1,2-Dichloropropane	U		0.0223	0.0876	16.2	02/25/2019 18:04	WG1241792
1,1-Dichloropropene	U		0.0122	0.0438	16.2	02/25/2019 18:04	WG1241792
1,3-Dichloropropane	U		0.0307	0.0876	16.2	02/25/2019 18:04	WG1241792
cis-1,3-Dichloropropene	U		0.0119	0.0438	16.2	02/25/2019 18:04	WG1241792
trans-1,3-Dichloropropene	U		0.0268	0.0876	16.2	02/25/2019 18:04	WG1241792
trans-1,4-Dichloro-2-butene	U		0.0245	0.0876	16.2	02/25/2019 18:04	WG1241792
2,2-Dichloropropane	U		0.0138	0.0438	16.2	02/25/2019 18:04	WG1241792
Di-isopropyl ether	U		0.00613	0.0175	16.2	02/25/2019 18:04	WG1241792
Ethylbenzene	U		0.00929	0.0438	16.2	02/25/2019 18:04	WG1241792
Hexachloro-1,3-butadiene	U		0.223	0.438	16.2	02/25/2019 18:04	WG1241792
2-Hexanone	U		0.175	0.438	16.2	02/25/2019 18:04	WG1241792
n-Hexane	U		0.0186	0.0876	16.2	02/25/2019 18:04	WG1241792
Iodomethane	U		0.106	0.219	16.2	02/25/2019 18:04	WG1241792
Isopropylbenzene	U		0.0151	0.0438	16.2	02/25/2019 18:04	WG1241792
p-Isopropyltoluene	U		0.0408	0.0876	16.2	02/25/2019 18:04	WG1241792
2-Butanone (MEK)	U		0.218	0.438	16.2	02/25/2019 18:04	WG1241792
Methylene Chloride	U		0.117	0.438	16.2	02/25/2019 18:04	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.175	0.438	16.2	02/25/2019 18:04	WG1241792

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/20/19 15:55

L1072936

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U	<u>J0</u>	0.00517	0.0175	16.2	02/25/2019 18:04	WG1241792
Naphthalene	U		0.0546	0.219	16.2	02/25/2019 18:04	WG1241792
n-Propylbenzene	U		0.0207	0.0876	16.2	02/25/2019 18:04	WG1241792
Styrene	U	<u>J4</u>	0.0478	0.219	16.2	02/25/2019 18:04	WG1241792
1,1,1,2-Tetrachloroethane	U		0.00876	0.0438	16.2	02/25/2019 18:04	WG1241792
1,1,2,2-Tetrachloroethane	U		0.00683	0.0438	16.2	02/25/2019 18:04	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.0118	0.0438	16.2	02/25/2019 18:04	WG1241792
Tetrachloroethene	U		0.00757	0.0270	10	03/02/2019 04:59	WG1244113
Toluene	U		0.0218	0.0876	16.2	02/25/2019 18:04	WG1241792
1,2,3-Trichlorobenzene	U		0.0109	0.0438	16.2	02/25/2019 18:04	WG1241792
1,2,4-Trichlorobenzene	U		0.0844	0.219	16.2	02/25/2019 18:04	WG1241792
1,1,1-Trichloroethane	U		0.00482	0.0438	16.2	02/25/2019 18:04	WG1241792
1,1,2-Trichloroethane	U		0.0155	0.0438	16.2	02/25/2019 18:04	WG1241792
Trichloroethene	0.0182		0.00701	0.0175	16.2	02/25/2019 18:04	WG1241792
Trichlorofluoromethane	U		0.00876	0.0438	16.2	02/25/2019 18:04	WG1241792
1,2,3-Trichloropropane	U		0.0893	0.219	16.2	02/25/2019 18:04	WG1241792
1,2,4-Trimethylbenzene	U		0.0203	0.0876	16.2	02/25/2019 18:04	WG1241792
1,2,3-Trimethylbenzene	U		0.0201	0.0876	16.2	02/25/2019 18:04	WG1241792
1,3,5-Trimethylbenzene	U		0.0189	0.0876	16.2	02/25/2019 18:04	WG1241792
Vinyl acetate	U		0.0616	0.219	16.2	02/25/2019 18:04	WG1241792
Vinyl chloride	U		0.0120	0.0438	16.2	02/25/2019 18:04	WG1241792
Xylenes, Total	U		0.0837	0.114	16.2	02/25/2019 18:04	WG1241792
(S) Toluene-d8	101			75.0-131		02/25/2019 18:04	WG1241792
(S) Toluene-d8	126			75.0-131		03/02/2019 04:59	WG1244113
(S) 4-Bromofluorobenzene	87.4			67.0-138		02/25/2019 18:04	WG1241792
(S) 4-Bromofluorobenzene	96.0			67.0-138		03/02/2019 04:59	WG1244113
(S) 1,2-Dichloroethane-d4	107			70.0-130		02/25/2019 18:04	WG1241792
(S) 1,2-Dichloroethane-d4	93.2			70.0-130		03/02/2019 04:59	WG1244113

Sample Narrative:

L1072936-16 WG1241792, WG1244113: Dilution due to sample volume.

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	90.3		1	02/27/2019 16:04	WG1242109

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0152	0.0277	1	02/25/2019 18:23	WG1241792
Acrylonitrile	U		0.00210	0.0138	1	02/25/2019 18:23	WG1241792
Benzene	U		0.000443	0.00111	1	02/25/2019 18:23	WG1241792
Bromobenzene	U		0.00116	0.0138	1	02/25/2019 18:23	WG1241792
Bromodichloromethane	U		0.000873	0.00277	1	02/25/2019 18:23	WG1241792
Bromochloromethane	U		0.00125	0.00554	1	02/25/2019 18:23	WG1241792
Bromoform	U		0.00662	0.0277	1	03/02/2019 05:21	WG1244113
Bromomethane	U	J4	0.00410	0.0138	1	02/25/2019 18:23	WG1241792
n-Butylbenzene	U		0.00425	0.0138	1	02/25/2019 18:23	WG1241792
sec-Butylbenzene	U		0.00280	0.0138	1	02/25/2019 18:23	WG1241792
tert-Butylbenzene	U		0.00172	0.00554	1	02/25/2019 18:23	WG1241792
Carbon disulfide	U		0.00450	0.0138	1	02/25/2019 18:23	WG1241792
Carbon tetrachloride	U		0.00120	0.00554	1	02/25/2019 18:23	WG1241792
Chlorobenzene	U		0.000635	0.00277	1	02/25/2019 18:23	WG1241792
Chlorodibromomethane	U		0.000498	0.00277	1	02/25/2019 18:23	WG1241792
Chloroethane	U		0.00120	0.00554	1	02/25/2019 18:23	WG1241792
Chloroform	U		0.000460	0.00277	1	02/25/2019 18:23	WG1241792
Chloromethane	U		0.00154	0.0138	1	02/25/2019 18:23	WG1241792
2-Chlorotoluene	U		0.00102	0.00277	1	02/25/2019 18:23	WG1241792
4-Chlorotoluene	U		0.00125	0.00554	1	02/25/2019 18:23	WG1241792
1,2-Dibromo-3-Chloropropane	U		0.00565	0.0277	1	02/25/2019 18:23	WG1241792
1,2-Dibromoethane	U		0.000581	0.00277	1	02/25/2019 18:23	WG1241792
Dibromomethane	U		0.00111	0.00554	1	02/25/2019 18:23	WG1241792
1,2-Dichlorobenzene	U		0.00161	0.00554	1	02/25/2019 18:23	WG1241792
1,3-Dichlorobenzene	U		0.00188	0.00554	1	02/25/2019 18:23	WG1241792
1,4-Dichlorobenzene	U		0.00218	0.00554	1	02/25/2019 18:23	WG1241792
Dichlorodifluoromethane	U		0.000906	0.00277	1	02/25/2019 18:23	WG1241792
1,1-Dichloroethane	U		0.000637	0.00277	1	02/25/2019 18:23	WG1241792
1,2-Dichloroethane	U		0.000526	0.00277	1	03/02/2019 05:21	WG1244113
1,1-Dichloroethene	0.00206	J	0.000554	0.00277	1	02/25/2019 18:23	WG1241792
cis-1,2-Dichloroethene	0.564		0.000764	0.00277	1	02/25/2019 18:23	WG1241792
trans-1,2-Dichloroethene	0.00208	J	0.00158	0.00554	1	02/25/2019 18:23	WG1241792
1,2-Dichloropropane	U		0.00141	0.00554	1	02/25/2019 18:23	WG1241792
1,1-Dichloropropene	U		0.000775	0.00277	1	02/25/2019 18:23	WG1241792
1,3-Dichloropropane	U		0.00194	0.00554	1	02/25/2019 18:23	WG1241792
cis-1,3-Dichloropropene	U		0.000751	0.00277	1	02/25/2019 18:23	WG1241792
trans-1,3-Dichloropropene	U		0.00169	0.00554	1	02/25/2019 18:23	WG1241792
trans-1,4-Dichloro-2-butene	U		0.00155	0.00554	1	02/25/2019 18:23	WG1241792
2,2-Dichloropropane	U		0.000878	0.00277	1	02/25/2019 18:23	WG1241792
Di-isopropyl ether	U		0.000388	0.00111	1	02/25/2019 18:23	WG1241792
Ethylbenzene	U		0.000587	0.00277	1	02/25/2019 18:23	WG1241792
Hexachloro-1,3-butadiene	U		0.0141	0.0277	1	02/25/2019 18:23	WG1241792
2-Hexanone	U		0.0111	0.0277	1	02/25/2019 18:23	WG1241792
n-Hexane	0.00142	B J	0.00117	0.00554	1	02/25/2019 18:23	WG1241792
Iodomethane	U		0.00670	0.0138	1	02/25/2019 18:23	WG1241792
Isopropylbenzene	U		0.000956	0.00277	1	02/25/2019 18:23	WG1241792
p-Isopropyltoluene	U		0.00258	0.00554	1	02/25/2019 18:23	WG1241792
2-Butanone (MEK)	U		0.0138	0.0277	1	02/25/2019 18:23	WG1241792
Methylene Chloride	U		0.00735	0.0277	1	02/25/2019 18:23	WG1241792
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0277	1	02/25/2019 18:23	WG1241792





Collected date/time: 02/20/19 16:00

L1072936

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U	<u>J0</u>	0.000327	0.00111	1	02/25/2019 18:23	WG1241792
Naphthalene	U		0.00346	0.0138	1	02/25/2019 18:23	WG1241792
n-Propylbenzene	U		0.00131	0.00554	1	02/25/2019 18:23	WG1241792
Styrene	U	<u>J4</u>	0.00302	0.0138	1	02/25/2019 18:23	WG1241792
1,1,1,2-Tetrachloroethane	U		0.000554	0.00277	1	02/25/2019 18:23	WG1241792
1,1,2,2-Tetrachloroethane	U		0.000432	0.00277	1	02/25/2019 18:23	WG1241792
1,1,2-Trichlorotrifluoroethane	U		0.000748	0.00277	1	02/25/2019 18:23	WG1241792
Tetrachloroethene	0.251		0.000775	0.00277	1	02/25/2019 18:23	WG1241792
Toluene	0.00146	<u>J</u>	0.00138	0.00554	1	02/25/2019 18:23	WG1241792
1,2,3-Trichlorobenzene	U		0.000692	0.00277	1	02/25/2019 18:23	WG1241792
1,2,4-Trichlorobenzene	U		0.00534	0.0138	1	02/25/2019 18:23	WG1241792
1,1,1-Trichloroethane	U		0.000305	0.00277	1	02/25/2019 18:23	WG1241792
1,1,2-Trichloroethane	U		0.000978	0.00277	1	02/25/2019 18:23	WG1241792
Trichloroethene	0.247		0.000443	0.00111	1	02/25/2019 18:23	WG1241792
Trichlorofluoromethane	U		0.000554	0.00277	1	02/25/2019 18:23	WG1241792
1,2,3-Trichloropropane	U		0.00565	0.0138	1	02/25/2019 18:23	WG1241792
1,2,4-Trimethylbenzene	U		0.00128	0.00554	1	02/25/2019 18:23	WG1241792
1,2,3-Trimethylbenzene	U		0.00127	0.00554	1	02/25/2019 18:23	WG1241792
1,3,5-Trimethylbenzene	U		0.00120	0.00554	1	02/25/2019 18:23	WG1241792
Vinyl acetate	U		0.00390	0.0138	1	02/25/2019 18:23	WG1241792
Vinyl chloride	U		0.000756	0.00277	1	02/25/2019 18:23	WG1241792
Xylenes, Total	U		0.00529	0.00720	1	02/25/2019 18:23	WG1241792
(S) Toluene-d8	102			75.0-131		02/25/2019 18:23	WG1241792
(S) Toluene-d8	102			75.0-131		03/02/2019 05:21	WG1244113
(S) 4-Bromofluorobenzene	87.6			67.0-138		02/25/2019 18:23	WG1241792
(S) 4-Bromofluorobenzene	94.8			67.0-138		03/02/2019 05:21	WG1244113
(S) 1,2-Dichloroethane-d4	99.0			70.0-130		02/25/2019 18:23	WG1241792
(S) 1,2-Dichloroethane-d4	91.6			70.0-130		03/02/2019 05:21	WG1244113

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	
Acetone	1.42	J	1.05	25.0	1	02/25/2019 10:38	WG1241720
Acrylonitrile	U		0.873	5.00	1	02/25/2019 10:38	WG1241720
Benzene	U		0.0896	0.500	1	02/25/2019 10:38	WG1241720
Bromobenzene	U		0.133	0.500	1	02/25/2019 10:38	WG1241720
Bromodichloromethane	U		0.0800	0.500	1	02/25/2019 10:38	WG1241720
Bromochloromethane	U		0.145	0.500	1	02/25/2019 10:38	WG1241720
Bromoform	U		0.186	0.500	1	02/25/2019 10:38	WG1241720
Bromomethane	U		0.157	2.50	1	02/25/2019 10:38	WG1241720
n-Butylbenzene	U		0.143	0.500	1	02/25/2019 10:38	WG1241720
sec-Butylbenzene	U		0.134	0.500	1	02/25/2019 10:38	WG1241720
tert-Butylbenzene	U		0.183	0.500	1	02/25/2019 10:38	WG1241720
Carbon disulfide	U		0.101	0.500	1	02/25/2019 10:38	WG1241720
Carbon tetrachloride	U		0.159	0.500	1	02/25/2019 10:38	WG1241720
Chlorobenzene	U		0.140	0.500	1	02/25/2019 10:38	WG1241720
Chlorodibromomethane	U		0.128	0.500	1	02/25/2019 10:38	WG1241720
Chloroethane	U		0.141	2.50	1	02/25/2019 10:38	WG1241720
Chloroform	U		0.0860	0.500	1	02/25/2019 10:38	WG1241720
Chloromethane	U	JO	0.153	1.25	1	02/25/2019 10:38	WG1241720
2-Chlorotoluene	U		0.111	0.500	1	02/25/2019 10:38	WG1241720
4-Chlorotoluene	U		0.0972	0.500	1	02/25/2019 10:38	WG1241720
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/25/2019 10:38	WG1241720
1,2-Dibromoethane	U		0.193	0.500	1	02/25/2019 10:38	WG1241720
Dibromomethane	U	J4	0.117	0.500	1	02/25/2019 10:38	WG1241720
1,2-Dichlorobenzene	U		0.101	0.500	1	02/25/2019 10:38	WG1241720
1,3-Dichlorobenzene	U		0.130	0.500	1	02/25/2019 10:38	WG1241720
1,4-Dichlorobenzene	U		0.121	0.500	1	02/25/2019 10:38	WG1241720
Dichlorodifluoromethane	U		0.127	2.50	1	02/25/2019 10:38	WG1241720
1,1-Dichloroethane	U		0.114	0.500	1	02/25/2019 10:38	WG1241720
1,2-Dichloroethane	U		0.108	0.500	1	02/25/2019 10:38	WG1241720
1,1-Dichloroethene	U		0.188	0.500	1	02/25/2019 10:38	WG1241720
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/25/2019 10:38	WG1241720
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/25/2019 10:38	WG1241720
1,2-Dichloropropane	U		0.190	0.500	1	02/25/2019 10:38	WG1241720
1,1-Dichloropropene	U		0.128	0.500	1	02/25/2019 10:38	WG1241720
1,3-Dichloropropane	U		0.147	1.00	1	02/25/2019 10:38	WG1241720
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/25/2019 10:38	WG1241720
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/25/2019 10:38	WG1241720
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/25/2019 10:38	WG1241720
2,2-Dichloropropane	U		0.0929	0.500	1	02/25/2019 10:38	WG1241720
Di-isopropyl ether	U		0.0924	0.500	1	02/25/2019 10:38	WG1241720
Ethylbenzene	U		0.158	0.500	1	02/25/2019 10:38	WG1241720
Hexachloro-1,3-butadiene	U	JO	0.157	1.00	1	02/25/2019 10:38	WG1241720
2-Hexanone	U		0.757	5.00	1	02/25/2019 10:38	WG1241720
n-Hexane	U		0.305	5.00	1	02/25/2019 10:38	WG1241720
Iodomethane	U		0.377	10.0	1	02/26/2019 05:55	WG1241940
Isopropylbenzene	U		0.126	0.500	1	02/25/2019 10:38	WG1241720
p-Isopropyltoluene	U		0.138	0.500	1	02/25/2019 10:38	WG1241720
2-Butanone (MEK)	U		1.28	5.00	1	02/25/2019 10:38	WG1241720
Methylene Chloride	U		1.07	2.50	1	02/25/2019 10:38	WG1241720
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/25/2019 10:38	WG1241720
Methyl tert-butyl ether	U		0.102	0.500	1	02/25/2019 10:38	WG1241720
Naphthalene	U		0.174	2.50	1	02/25/2019 10:38	WG1241720
n-Propylbenzene	U		0.162	0.500	1	02/25/2019 10:38	WG1241720
Styrene	U		0.117	0.500	1	02/25/2019 10:38	WG1241720
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/25/2019 10:38	WG1241720
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/25/2019 10:38	WG1241720

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	02/25/2019 10:38	WG1241720
Tetrachloroethene	U		0.199	0.500	1	02/25/2019 10:38	WG1241720
Toluene	U		0.412	0.500	1	02/25/2019 10:38	WG1241720
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/25/2019 10:38	WG1241720
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/25/2019 10:38	WG1241720
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/25/2019 10:38	WG1241720
1,1,2-Trichloroethane	U		0.186	0.500	1	02/25/2019 10:38	WG1241720
Trichloroethene	U		0.153	0.500	1	02/25/2019 10:38	WG1241720
Trichlorofluoromethane	U		0.130	2.50	1	02/25/2019 10:38	WG1241720
1,2,3-Trichloropropane	U		0.247	2.50	1	02/25/2019 10:38	WG1241720
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/25/2019 10:38	WG1241720
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/25/2019 10:38	WG1241720
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/25/2019 10:38	WG1241720
Vinyl acetate	U		0.645	5.00	1	02/25/2019 10:38	WG1241720
Vinyl chloride	U		0.118	0.500	1	02/25/2019 10:38	WG1241720
Xylenes, Total	U		0.316	1.50	1	02/25/2019 10:38	WG1241720
(S) Toluene-d8	102			80.0-120		02/25/2019 10:38	WG1241720
(S) Toluene-d8	97.0			80.0-120		02/26/2019 05:55	WG1241940
(S) 4-Bromofluorobenzene	106			77.0-126		02/25/2019 10:38	WG1241720
(S) 4-Bromofluorobenzene	94.9			77.0-126		02/26/2019 05:55	WG1241940
(S) 1,2-Dichloroethane-d4	105			70.0-130		02/25/2019 10:38	WG1241720
(S) 1,2-Dichloroethane-d4	105			70.0-130		02/26/2019 05:55	WG1241940

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

L1072936-01

Method Blank (MB)

(MB) R3387240-1 02/26/19 14:18

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

¹Cp ${}^2\text{Tc}$ ^3S_S ${}^4\text{Cn}$ ^5Sr ${}^6\text{Qc}$

L1072923-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1072923-11 02/26/19 14:18 • (DUP) R3387240-3 02/26/19 14:18

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	85.6	85.2	1	0.505		10

GI

 ${}^8\text{Al}$ ⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3387240-2 02/26/19 14:18

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Total Solids	50.0	50.0	100	85.0-115	

Total Solids by Method 2540 G-2011

[L1072936-02,03,04,05,06,07,08,09,10,11](#)

Method Blank (MB)

(MB) R3387480-1 02/27/19 16:21

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

L1072936-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1072936-04 02/27/19 16:21 • (DUP) R3387480-3 02/27/19 16:21

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	83.0	87.5	1	5.26		10

Laboratory Control Sample (LCS)

(LCS) R3387480-2 02/27/19 16:21

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

Total Solids by Method 2540 G-2011

[L1072936-12,13,14,15,16,17](#)

Method Blank (MB)

(MB) R3387468-1 02/27/19 16:04

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

L1072936-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1072936-15 02/27/19 16:04 • (DUP) R3387468-3 02/27/19 16:04

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	87.6	87.7	1	0.183		10

Laboratory Control Sample (LCS)

(LCS) R3387468-2 02/27/19 16:04

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



Method Blank (MB)

(MB) R3386764-3 02/25/19 09:48

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
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
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-1,4-Dichloro-2-butene	U		0.257	5.00
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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3386764-3 02/25/19 09:48

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Ethylbenzene	U		0.158	0.500
2-Hexanone	U		0.757	5.00
Hexachloro-1,3-butadiene	U		0.157	1.00
n-Hexane	U		0.305	5.00
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	0.523	U	0.174	2.50
Vinyl acetate	U		0.645	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
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	104			80.0-120
(S) 4-Bromofluorobenzene	111			77.0-126
(S) 1,2-Dichloroethane-d4	106			70.0-130

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3386764-1 02/25/19 08:47 • (LCSD) R3386764-2 02/25/19 09:08

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 %
trans-1,4-Dichloro-2-butene	25.0	20.2	21.0	80.8	84.0	33.0-144			3.98	20
Bromochloromethane	25.0	30.2	29.4	121	118	76.0-122			2.53	20
Acetone	125	105	118	84.3	94.5	19.0-160			11.4	27
Acrylonitrile	125	136	142	109	114	55.0-149			4.38	20
Benzene	25.0	27.5	26.7	110	107	70.0-123			2.91	20
Bromobenzene	25.0	22.9	21.4	91.5	85.8	73.0-121			6.45	20
Bromodichloromethane	25.0	28.3	28.3	113	113	75.0-120			0.0158	20
Bromoform	25.0	26.1	27.6	104	110	68.0-132			5.56	20
Bromomethane	25.0	28.8	27.2	115	109	10.0-160			5.64	25
n-Butylbenzene	25.0	25.0	25.4	100	102	73.0-125			1.48	20
sec-Butylbenzene	25.0	24.0	23.4	96.0	93.5	75.0-125			2.65	20
tert-Butylbenzene	25.0	25.9	25.4	104	102	76.0-124			1.70	20
Carbon disulfide	25.0	26.8	25.8	107	103	61.0-128			3.85	20
Carbon tetrachloride	25.0	28.9	28.5	116	114	68.0-126			1.24	20
Chlorobenzene	25.0	25.6	26.1	102	104	80.0-121			1.93	20
Chlorodibromomethane	25.0	26.4	27.3	105	109	77.0-125			3.44	20
Chloroethane	25.0	27.0	27.6	108	110	47.0-150			2.12	20
Chloroform	25.0	29.0	28.3	116	113	73.0-120			2.33	20
Chloromethane	25.0	19.3	21.2	77.2	84.9	41.0-142			9.50	20
2-Chlorotoluene	25.0	24.9	23.6	99.7	94.4	76.0-123			5.49	20
Vinyl acetate	125	170	168	136	134	11.0-160			1.54	20
4-Chlorotoluene	25.0	25.4	24.1	102	96.3	75.0-122			5.41	20
1,2-Dibromo-3-Chloropropane	25.0	22.4	23.9	89.6	95.6	58.0-134			6.46	20
1,2-Dibromoethane	25.0	27.6	28.3	111	113	80.0-122			2.29	20
Dibromomethane	25.0	30.6	29.3	123	117	80.0-120	J4		4.64	20
1,2-Dichlorobenzene	25.0	26.6	25.6	106	102	79.0-121			3.75	20
1,3-Dichlorobenzene	25.0	26.5	26.1	106	104	79.0-120			1.53	20
1,4-Dichlorobenzene	25.0	25.8	25.7	103	103	79.0-120			0.380	20
Dichlorodifluoromethane	25.0	28.8	28.6	115	115	51.0-149			0.493	20
1,1-Dichloroethane	25.0	27.7	27.3	111	109	70.0-126			1.25	20
1,2-Dichloroethane	25.0	29.6	29.0	118	116	70.0-128			1.87	20
1,1-Dichloroethene	25.0	25.9	26.1	104	104	71.0-124			0.834	20
2-Hexanone	125	124	134	99.0	107	67.0-149			7.80	20
cis-1,2-Dichloroethene	25.0	27.8	28.8	111	115	73.0-120			3.56	20
trans-1,2-Dichloroethene	25.0	27.7	27.8	111	111	73.0-120			0.398	20
1,2-Dichloropropane	25.0	25.9	26.0	104	104	77.0-125			0.548	20
1,1-Dichloropropene	25.0	30.5	29.4	122	117	74.0-126			3.65	20
1,3-Dichloropropane	25.0	26.3	27.6	105	110	80.0-120			4.59	20
cis-1,3-Dichloropropene	25.0	27.8	27.3	111	109	80.0-123			1.83	20
trans-1,3-Dichloropropene	25.0	28.0	29.2	112	117	78.0-124			4.20	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



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

(LCS) R3386764-1 02/25/19 08:47 • (LCSD) R3386764-2 02/25/19 09:08

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
2,2-Dichloropropane	25.0	26.4	25.4	106	102	58.0-130			3.66	20
Di-isopropyl ether	25.0	24.8	24.6	99.2	98.3	58.0-138			0.847	20
Ethylbenzene	25.0	25.6	26.8	102	107	79.0-123			4.67	20
Hexachloro-1,3-butadiene	25.0	18.2	19.3	72.9	77.4	54.0-138			5.89	20
n-Hexane	25.0	26.0	26.8	104	107	57.0-133			2.98	20
Isopropylbenzene	25.0	24.5	25.4	97.9	102	76.0-127			3.66	20
p-Isopropyltoluene	25.0	25.1	24.4	100	97.6	76.0-125			2.82	20
2-Butanone (MEK)	125	121	133	96.5	106	44.0-160			9.70	20
Methylene Chloride	25.0	28.1	27.4	112	110	67.0-120			2.33	20
4-Methyl-2-pentanone (MIBK)	125	118	125	94.5	99.7	68.0-142			5.32	20
Methyl tert-butyl ether	25.0	28.3	28.1	113	112	68.0-125			0.795	20
Naphthalene	25.0	20.2	22.2	80.6	88.8	54.0-135			9.64	20
n-Propylbenzene	25.0	23.4	22.4	93.5	89.7	77.0-124			4.21	20
Styrene	25.0	27.1	27.8	109	111	73.0-130			2.54	20
1,1,1,2-Tetrachloroethane	25.0	27.8	29.1	111	117	75.0-125			4.64	20
1,1,2,2-Tetrachloroethane	25.0	24.3	23.5	97.4	94.1	65.0-130			3.39	20
Tetrachloroethene	25.0	26.7	27.1	107	108	72.0-132			1.26	20
Toluene	25.0	24.3	24.8	97.3	99.3	79.0-120			1.99	20
1,1,2-Trichlorotrifluoroethane	25.0	29.5	27.7	118	111	69.0-132			6.34	20
1,2,3-Trichlorobenzene	25.0	21.7	22.8	86.8	91.1	50.0-138			4.86	20
1,2,4-Trichlorobenzene	25.0	24.1	24.4	96.5	97.8	57.0-137			1.32	20
1,1,1-Trichloroethane	25.0	28.7	27.8	115	111	73.0-124			3.32	20
1,1,2-Trichloroethane	25.0	26.8	27.2	107	109	80.0-120			1.25	20
Trichloroethene	25.0	29.0	28.3	116	113	78.0-124			2.31	20
Trichlorofluoromethane	25.0	30.0	30.4	120	121	59.0-147			1.29	20
1,2,3-Trichloropropane	25.0	26.3	24.0	105	96.2	73.0-130			8.95	20
1,2,3-Trimethylbenzene	25.0	25.2	24.2	101	96.9	77.0-120			4.14	20
1,2,4-Trimethylbenzene	25.0	24.7	22.8	98.9	91.2	76.0-121			8.13	20
1,3,5-Trimethylbenzene	25.0	24.8	23.9	99.0	95.4	76.0-122			3.70	20
Vinyl chloride	25.0	26.9	26.0	108	104	67.0-131			3.53	20
Xylenes, Total	75.0	76.2	79.1	102	105	79.0-123			3.73	20
(S) Toluene-d8				94.8	99.3	80.0-120				
(S) 4-Bromofluorobenzene				103	106	77.0-126				
(S) 1,2-Dichloroethane-d4				120	116	70.0-130				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3386879-3 02/25/19 22:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iodomethane	U		0.377	10.0
(S) Toluene-d8	99.7			80.0-120
(S) 4-Bromofluorobenzene	90.8			77.0-126
(S) 1,2-Dichloroethane-d4	103			70.0-130

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

(LCS) R3386879-1 02/25/19 20:45 • (LCSD) R3386879-2 02/25/19 22:11

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 %
Iodomethane	125	107	112	85.5	89.4	33.0-147			4.43	26
(S) Toluene-d8				93.7	93.8	80.0-120				
(S) 4-Bromofluorobenzene				92.4	95.9	77.0-126				
(S) 1,2-Dichloroethane-d4				108	100	70.0-130				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc



Method Blank (MB)

(MB) R3388031-2 02/25/19 10:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3388031-2 02/25/19 10:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
n-Hexane	0.00310	U	0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	101			75.0-131
(S) 4-Bromofluorobenzene	92.1			67.0-138
(S) 1,2-Dichloroethane-d4	94.2			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3388031-1 02/25/19 09:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	0.625	0.481	76.9	10.0-160	
Acrylonitrile	0.625	0.689	110	45.0-153	
Benzene	0.125	0.116	92.5	70.0-123	
Bromobenzene	0.125	0.101	80.8	73.0-121	
Bromodichloromethane	0.125	0.119	95.1	73.0-121	
Bromochloromethane	0.125	0.115	92.3	77.0-128	
Bromomethane	0.125	0.185	148	56.0-147	J4
n-Butylbenzene	0.125	0.113	90.2	68.0-135	
sec-Butylbenzene	0.125	0.119	94.8	74.0-130	
tert-Butylbenzene	0.125	0.0965	77.2	75.0-127	
Carbon disulfide	0.125	0.104	83.4	56.0-133	
Carbon tetrachloride	0.125	0.116	92.7	66.0-128	
Chlorobenzene	0.125	0.108	86.4	76.0-128	
Chlorodibromomethane	0.125	0.0977	78.2	74.0-127	
Chloroethane	0.125	0.139	111	61.0-134	
Chloroform	0.125	0.126	101	72.0-123	
Chloromethane	0.125	0.105	84.3	51.0-138	
2-Chlorotoluene	0.125	0.127	102	75.0-124	
4-Chlorotoluene	0.125	0.109	87.4	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.0897	71.7	59.0-130	
1,2-Dibromoethane	0.125	0.109	87.5	74.0-128	
Dibromomethane	0.125	0.119	94.8	75.0-122	
1,2-Dichlorobenzene	0.125	0.112	89.6	76.0-124	
1,3-Dichlorobenzene	0.125	0.126	101	76.0-125	
1,4-Dichlorobenzene	0.125	0.117	93.3	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.125	100	45.0-143	
Dichlorodifluoromethane	0.125	0.142	114	43.0-156	
1,1-Dichloroethane	0.125	0.121	96.5	70.0-127	
1,1-Dichloroethene	0.125	0.125	99.7	65.0-131	
cis-1,2-Dichloroethene	0.125	0.113	90.3	73.0-125	
trans-1,2-Dichloroethene	0.125	0.122	97.8	71.0-125	
1,2-Dichloropropane	0.125	0.112	89.4	74.0-125	
1,1-Dichloropropene	0.125	0.124	99.3	73.0-125	
1,3-Dichloropropane	0.125	0.110	88.2	80.0-125	
cis-1,3-Dichloropropene	0.125	0.110	88.0	76.0-127	
trans-1,3-Dichloropropene	0.125	0.104	83.3	73.0-127	
2,2-Dichloropropane	0.125	0.109	87.4	59.0-135	
Di-isopropyl ether	0.125	0.122	97.9	60.0-136	
Ethylbenzene	0.125	0.102	81.4	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.122	97.7	57.0-150	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Laboratory Control Sample (LCS)

(LCS) R3388031-1 02/25/19 09:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
2-Hexanone	0.625	0.603	96.5	54.0-147	
n-Hexane	0.125	0.143	114	55.0-137	
Iodomethane	0.625	0.542	86.7	74.0-134	
Isopropylbenzene	0.125	0.105	83.8	72.0-127	
p-Isopropyltoluene	0.125	0.112	89.7	72.0-133	
2-Butanone (MEK)	0.625	0.781	125	30.0-160	
Methylene Chloride	0.125	0.110	88.2	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.579	92.7	56.0-143	
Methyl tert-butyl ether	0.125	0.0952	76.2	66.0-132	
Naphthalene	0.125	0.0996	79.7	59.0-130	
n-Propylbenzene	0.125	0.117	93.3	74.0-126	
Styrene	0.125	0.0863	69.0	72.0-127	J4
1,1,1,2-Tetrachloroethane	0.125	0.0962	76.9	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.119	95.4	68.0-128	
Tetrachloroethene	0.125	0.0914	73.2	70.0-136	
Toluene	0.125	0.110	88.3	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.114	91.5	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.141	113	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.135	108	62.0-137	
1,1,1-Trichloroethane	0.125	0.109	87.6	69.0-126	
1,1,2-Trichloroethane	0.125	0.126	101	78.0-123	
Trichloroethene	0.125	0.119	95.2	76.0-126	
Trichlorofluoromethane	0.125	0.129	103	61.0-142	
1,2,3-Trichloropropane	0.125	0.121	96.8	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.105	84.2	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.110	87.8	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.118	94.7	73.0-127	
Vinyl acetate	0.625	0.820	131	43.0-159	
Vinyl chloride	0.125	0.118	94.2	63.0-134	
Xylenes, Total	0.375	0.305	81.3	72.0-127	
(S) Toluene-d8			97.9	75.0-131	
(S) 4-Bromofluorobenzene			97.1	67.0-138	
(S) 1,2-Dichloroethane-d4			103	70.0-130	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3388210-2 03/02/19 00:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Bromoform	U		0.00598	0.0250
1,2-Dichloroethane	U		0.000475	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
Tetrachloroethene	U		0.000700	0.00250
(S) Toluene-d8	100			75.0-131
(S) 4-Bromofluorobenzene	97.6			67.0-138
(S) 1,2-Dichloroethane-d4	85.7			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

Laboratory Control Sample (LCS)

(LCS) R3388210-1 03/01/19 22:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromoform	0.125	0.135	108	64.0-132	
1,2-Dichloroethane	0.125	0.116	92.9	65.0-131	
cis-1,2-Dichloroethene	0.125	0.116	92.8	73.0-125	
Tetrachloroethene	0.125	0.117	93.5	70.0-136	
(S) Toluene-d8			98.4	75.0-131	
(S) 4-Bromofluorobenzene			97.2	67.0-138	
(S) 1,2-Dichloroethane-d4			96.6	70.0-130	

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, the sample preparation volume or weight values differ from the standard, 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.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
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.
JO	JO: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
J4	The associated batch QC was outside the established quality control range for accuracy.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Pace National 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.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

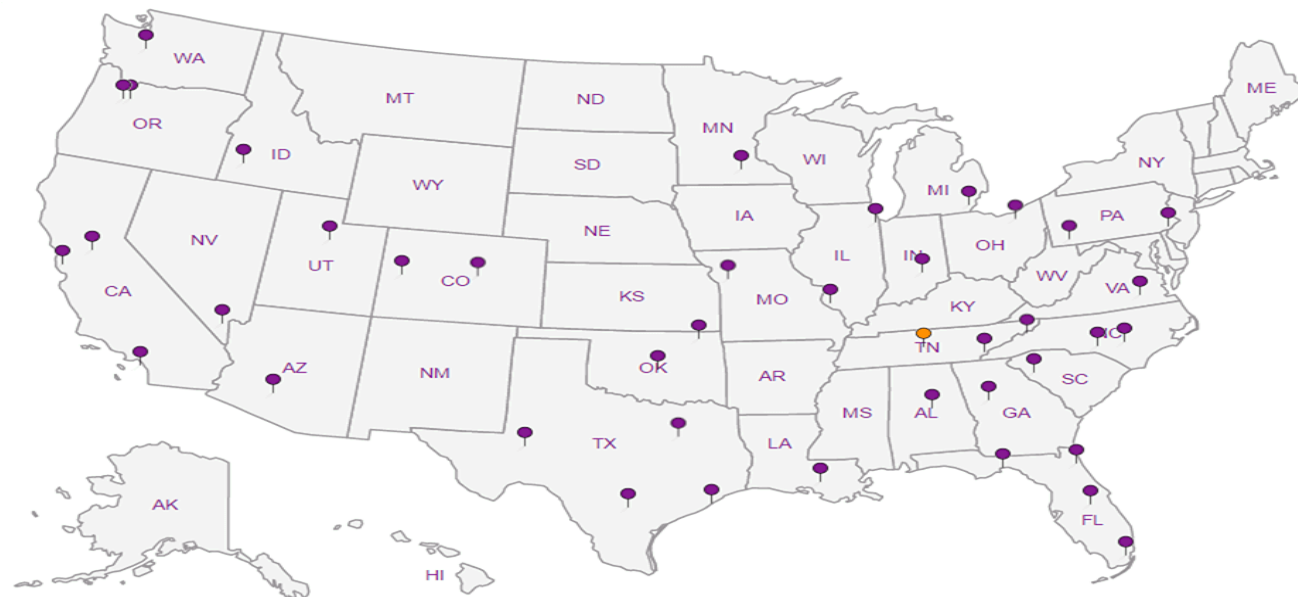
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National 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. Pace National 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



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



Report to:

Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;
bhaldeman@pesenv.com;

Project

Description: American Linen

City/State

Collected:

Phone: 206-529-3980

Fax: 206-529-3985

Client Project #

1413.001.05.501

Lab Project #

PESENVSWA-ALP

Collected by (print): ALVISA W

Site/Facility ID #

P.O. #

RACHEL M

Collected by (signature):

R. McLaughlin

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

No.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
ALCC-45	GRAB	SS	45	2/19/19	1040	2
ALCC-55		SS	55		1140	2
B6D6-17		SS	17	2/20/19	1556	1
B6D6-20		SS	20		1554	1
B6D6-25		SS	25		1605	1
B6D6-32		SS	32		1608	1
B6D6-35		SS	35		1610	1
B6D6-40		SS	40		1612	1
B6D6-45		SS	45		1655	1
B6D6-50	X	SS	50	X	1700	1

VOCs 8260C 40mlAmb/MeOH5ml/Syr

dry weight 2ozClr-NoPres

trip blk VOCs (LLC) 40mlAmb-HCl-BLK

L#

L1072936

F105

Acctnum: PESENVSWA

Template: T145466

Prelogin: P691113

TSR: 110 - Brian Ford

PB:

Shipped Via:

Remarks

Sample # (lab only)

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

Remarks:

Samples returned via:

UPS ☒ FedEx ☐ Courier ☐

RAD SCREEN: <0.5 mR/h

pH _____ Temp _____

Flow _____ Other _____

Tracking # 4757 5077 4127

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)

R. McLaughlin

Date:

2-19-19

Time:

1530

Received by: (Signature)

R. McLaughlin

Trip Blank Received: ☒ Yes ☐ No

HCL MeOH
TBR

Relinquished by: (Signature)

R. McLaughlin

Date:

2-22-19

Time:

1300

Received by: (Signature)

John

Temp: 22.0°C

Bottles Received: 38

If preservation required by Login: Date/Time

Relinquished by: (Signature)

R. McLaughlin

Date:

02/23/19

Time:

0845

Received for lab by: (Signature)

John

Date:

02/23/19

Time:

0845

02-145

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



12065 Lebanon Rd
Mount Juliet, TN 37122
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Fax: 615-758-5859



Report to:
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;
bhaldeman@pesenv.com;

KVIR@PESENV.COM

Project
Description: American Linen

City/State
Collected: SEATTLE WA

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

Client Project #
1413.001.05.501

Lab Project #
PESENVSWA-ALP

Collected by (print):
RACHEL M

Site/Facility ID #

P.O. #

Collected by (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 ☒

No.
of
Cnts

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cnts
B-933-50	GRAB	SS	50	2/21/19	1300	2
B10D10-15		SS	15		1440	
B10D10-20		SS	20		1445	
B10D10-25		SS	25		1450	
B10D10-30		SS	30		1453	
B10D10-35		SS	35		1455	
B10D10-40		SS	40		1458	
B10D10-45		SS	45		1555	
B10*D10-50	X	SS	50		1600	X
TB-022119	—	SS	—	X	1700	1

VOCs 8260C 40mIAmb/MeOH5ml/Syr

dry weight 2ozClir-NoPres

trip blk VOCs (LLC) 40mIAmb-HCl-Blk

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

Remarks:

Samples returned via:

UPS ☐ FedEx ☐ Courier ☐

Tracking #

RAD SCREEN: <0.5 mR/h

pH _____ Temp _____

Flow _____ Other _____

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 Headpace: ☐ 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: 2.2+0.1°C
Bottles Received: 38

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: 02/23/19 Time: 0845

Hold:

Condition:

NCF / OK