



July 23, 2019

**1413.001.05**

Washington Department of Ecology  
Northwest Regional Office Toxics Control Program  
3190 – 160th Ave. SE  
Bellevue, WA 98008-5452  
Attn: Ms. Tamara Cardona

**BY EMAIL ONLY**

**GROUNDWATER AND SOIL VAPOR DATA SUMMARY, SECOND QUARTER 2019  
AMERICAN LINEN SUPPLY CO-DEXTER AVE SITE  
AGREED ORDER NO. DE 14302**

Dear Ms. Cardona:

PES Environmental, Inc. (“PES”) has prepared this data submittal on behalf of BMR-Dexter LLC (“BMRD”) for the American Linen Supply Co–Dexter Avenue Site (the “Site”) located at 700 Dexter Avenue North, Seattle, Washington. This submittal documents the second quarter 2019 sampling of interim action performance monitoring wells at the 700 Dexter Avenue North property (the “Property”). Consistent with the Final Interim Action Work Plan (“IAWP”)<sup>1</sup> and the Final Contingent Action Addendum (“CAA”) to the Final IAWP<sup>2</sup>, PES measured groundwater levels, collected groundwater samples, and collected soil vapor samples during the quarter to document the chlorinated volatile organic compound (“CVOC”) concentrations in groundwater and soil vapor during implementation of the interim action. This technical memorandum summarizes the procedures and results of the second quarter monitoring event.

Interim action and construction activities were being performed on the Property concurrently with groundwater monitoring event. The construction activities were related to the installation of the shoring system required for the soil excavation and included installation of the soldier piles, installation of tie-backs and lagging, exporting of soil generated during the shoring system installation work, and exporting of clean fill used to construct working benches for soldier pile installation. Other activities included beginning demolition of the former building slab, footings, and other subsurface structures and construction of the water treatment system for construction stormwater and dewatering water. Dewatering was not occurring during the second quarter 2019 monitoring event.

**GROUNDWATER MONITORING PROCEDURES**

PES measured one round of groundwater levels in all available monitoring wells at the Site on April 22, 2019. In addition, PES collected groundwater samples from 43 monitoring wells outside of

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<sup>1</sup> PES Environmental, Inc. 2018. *Final Interim Action Work Plan, American Linen Supply Co-Dexter Avenue Site, 700 Dexter Avenue North, Seattle, Washington*. Prepared for BMR-Dexter LLC. August.

<sup>2</sup> PES Environmental, Inc. 2019. Letter from D. Balbiani and B. O’Neal to T. Cardona (Ecology) re: *Final Contingent Action Addendum to the Final Interim Action Work Plan, Former American Linen Supply Co-Dexter Ave Site, Agreed Order No. DE 14302*. February 14.

the Property between April 22 and May 3, 2019, including 8 Shallow Zone wells, 12 Intermediate A Zone wells, 10 Intermediate B Zone wells, and 13 Deep Zone wells. Monitoring wells on the Property were decommissioned after they were sampled in March 2019. Figure 1 shows the monitoring well locations. The monitoring wells were sampled consistent with the performance monitoring plan specified in the IAWP and CAA, except for the following:

- Intermediate A Zone monitoring well GEI-1 and Deep Zone monitoring wells FMW-131 and GEI-2 (all located at 630 Westlake Avenue North) and FMW-129 (located on the Seattle Department of Transportation property south of Roy Street) were added to the performance monitoring well network to provide current groundwater data, since they had last been sampled in June 2017; and
- Intermediate A Zone monitoring wells MW115 and MW116 and Deep Zone monitoring well MW113 (all located on the west side of the 9<sup>th</sup> Avenue North right-of-way) were not sampled due to lack of a City of Seattle permit to access the wells in the newly created bike lane.

PES used an electronic water level probe to measure depth to groundwater in the wells, and either a peristaltic or bladder pump to purge and sample the wells. Wells were purged at pumping rates of 200 mL/min or less. One primary groundwater sample was collected from each monitoring well, with duplicate samples collected from MW120, MW-153, MW-156, and MW-159. One equipment rinsate blank and nine trip blanks were also collected. All samples were shipped to Pace Analytical in Mount Juliet, Tennessee, for analysis of VOCs by Environmental Protection Agency (“EPA”) Method 8260C. Groundwater samples from wells near the Property were also analyzed for gasoline-range organics (“GRO”) by Washington State Department of Ecology (“Ecology”) Method NWTPH-Gx, and groundwater samples from a subset of wells across the Site were also analyzed for geochemical parameters as described in the Final IAWP and CAA. Groundwater sampling, sample analysis, and health and safety procedures were performed consistent with the Sampling and Analysis Plan, Quality Assurance/Quality Control Plan, and Health and Safety Plan provided in the Final IAWP.

## **VAPOR PROBE SAMPLING PROCEDURES**

PES collected soil vapor samples on April 29, 2019, from three soil vapor probes (SV01, SV02, and SV03) located on the east side of 8<sup>th</sup> Avenue North across from the Property (Figure 1). The vapor probes were sampled consistent with the performance monitoring plan specified in the IAWP. The soil vapor samples were collected in the vadose zone just above the groundwater capillary fringe, at depths ranging from 11.75 to 12.75 feet bgs, and analyzed for VOCs, including tetrachloroethene (“PCE”), trichloroethene (“TCE”), cis-1,2-dichloroethene (“cDCE”), trans-1,2-dichloroethene (“tDCE”), and vinyl chloride (“VC”). Soil vapor sampling, sample analysis, and health and safety procedures were performed consistent with the Sampling and Analysis Plan, Quality Assurance/Quality Control Plan, and Health and Safety Plan provided in the Final IAWP.

## **RESULTS**

**Groundwater Elevations and Flow Directions.** Table 1 provides the March 14, 2019, depth to groundwater measurements and calculated groundwater elevations. Depth to groundwater varied from 7.6 feet bgs in SCL-MW101 to 39.6 feet bgs in MW-138, and groundwater elevations (relative to NAVD 88) ranged from 17.2 feet in MW-153 to 38.2 feet in R-MW5.

Figure 2 presents groundwater contours for the Shallow, Intermediate A, Intermediate B, and Deep Zones using data measured on April 22, 2019. The groundwater flow direction in the Shallow and Intermediate A Zones was to the east-northeast, similar to the March 2019 groundwater level event. The general groundwater flow direction in the Intermediate B Zone was also to the east-northeast, although relatively high groundwater elevations near the eastern part of the Property indicate a westward component of flow in the Intermediate B Zone on the western part of the Property. This condition may be a residual effect of the interim action injections in the low-permeability Intermediate B Zone. Similar to the March 2019 groundwater level event, the groundwater flow direction in the Deep Zone was westward to the west of 9<sup>th</sup> Avenue North, and eastward to the east of 9<sup>th</sup> Avenue North. In locations with co-located wells in different zones, the vertical gradient was generally downward (e.g., at the MW121/MW-142/MW-143 well nest). Comparing the March 2017, March 2019, and April 2019 groundwater elevation contours for the Shallow, Intermediate A, and Deep Zones suggests that the interim action activities have not significantly affected groundwater flow in these zones. Groundwater elevation contours for the Intermediate B Zone were not prepared for March 2017, so a direct comparison between the March 2017 and 2019 Intermediate B Zone events cannot be made.

**Groundwater Analytical Results.** Tables 2 through 6 provide the groundwater results for all wells monitored historically at the Site. Table 2 presents the field parameter measurements. Tables 3, 4, and 5 provide the results for GRO; benzene, toluene, ethylbenzene, and total xylenes (“BTEX”); and PCE, TCE, cDCE, tDCE, and VC in the Shallow, Intermediate A and B, and Deep Zones, respectively. Table 6 presents the geochemical parameter results. Attachment A presents time-trend plots for the primary chlorinated VOCs (PCE, TCE, cDCE, and VC) in wells sampled historically at the Site. In the second quarter sampling event, the analytical laboratory reported all sample results to the method detection limit (“MDL”) to provide VC detection limits below the VC screening level. To evaluate the laboratory’s performance in meeting EPA’s quality control criteria, PES has reviewed the second quarter analytical reports and has added data qualifiers as necessary. Attachment B provides the analytical laboratory reports and data validation memorandum. The data collected in the second quarter were uploaded to Ecology’s Environmental Information Management database on June 19, 2019.

In the eight sampled Shallow Zone wells, GRO, BTEX, and tDCE were not detected above their respective screening levels in the second quarter 2019 sampling event. PCE, TCE, cDCE, and VC were detected at least once above their respective screening levels in the Shallow Zone wells, with the highest concentrations in MW-9. MW125 and R-MW5 did not have detections of these CVOCs above the screening levels.

In the 12 sampled Intermediate A Zone wells, toluene, ethylbenzene, total xylenes, and tDCE were not detected above their respective screening levels in the second quarter 2019 sampling event. Benzene was detected once above the screening level (MW108), and PCE, TCE, cDCE, and VC were detected above the screening levels in multiple Intermediate A Zone wells. Following are the highest detected concentrations of the primary CVOCs:

- PCE: 1,500 µg/L in MW110;
- TCE: 717 µg/L in MW-156;
- cDCE: 1,760 µg/L in MW-156; and

- VC: 125J µg/L in MW108.

Intermediate A Zone well GEI-1 did not have detections of GRO, BTEX, or the five primary CVOCs above the MDLs.

In the 10 sampled Intermediate B Zone wells, BTEX and tDCE were not detected above their respective screening levels in the second quarter 2019 sampling event. PCE was detected once above the screening level (MW-157), and TCE, cDCE, and VC were detected above the screening levels in multiple Intermediate B Zone wells. Following are the highest detected concentrations of the PCE breakdown products:

- TCE: 40.1 µg/L in W-MW-02;
- cDCE: 3,550 µg/L in MW-157; and
- VC: 622 µg/L in MW-157.

Intermediate B Zone wells MW112, MW126, and MW-143 did not have detections of GRO, BTEX, or the five primary CVOCs above the MDLs.

In the 13 sampled Deep Zone wells, toluene, ethylbenzene, total xylenes, and tDCE were not detected above their respective screening levels in the second quarter 2019 sampling event. Benzene was detected once above the screening level (GEI-2), and PCE, TCE, cDCE, and VC were detected above the screening levels in multiple Deep Zone wells. Following are the highest detected concentrations of the primary CVOCs:

- PCE: 101 µg/L in FMW-129;
- TCE: 166 µg/L in FMW-129;
- cDCE: 372 µg/L in FMW-129; and
- VC: 57.7J µg/L in GEI-2.

FMW-131 and MW-160 did not have detections of GRO, BTEX, or the five primary CVOCs above the screening levels, and MW102, MW106, MW122, and MW-138 did not have detections of GRO, BTEX, or the five primary CVOCs above the MDLs.

GRO was also detected in groundwater samples at concentrations exceeding the screening level (Tables 4 and 5); these were qualified, however, as a result of the data quality review. The data validation review of the laboratory reports indicated that the GRO concentrations above the screening levels in two wells (MW-156 and MW-157) were likely biased high due to the presence of CVOCs in the samples. The data validation review of the laboratory reports also indicated that the GRO results below the screening levels in six wells (MW-9, MW104, MW107, MW120, MW-147, and W-MW-02) were also biased high due to the presence of CVOCs in the samples. None of the unqualified GRO results exceeded the GRO screening level.

**Soil Vapor Analytical Results.** Table 7 provides the analytical results for PCE, TCE, cDCE, tDCE, and VC, none of which were detected above the laboratory reporting limit in April 2019. These results are consistent with the September 2018 and February 2019 results.



**Ms. Tamara Cardona**

PES Environmental, Inc.

**July 23, 2019**

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Please call if you have any questions or comments regarding information included in this data submittal.

Sincerely,

**PES ENVIRONMENTAL, INC.**



Daniel A. Balbiani, P.E.  
Principal Engineer



William R. Haldeman, LHG, R.G.  
Associate Hydrogeologist

cc: John Moshy, BMRD

**Attachments**

Table 1 – Summary of Groundwater Elevations, April 22, 2019

Table 2 – Groundwater Field Parameters

Table 3 – Groundwater Analytical Data, Shallow Zone Wells

Table 4 – Groundwater Analytical Data, Intermediate Zone Wells

Table 5 – Groundwater Analytical Data, Deep Zone Wells

Table 6 – Groundwater Geochemical Parameters

Table 7 – Soil Vapor Analytical Results

Figure 1 – Site-Wide Exploration Location Map

Figure 2 – Groundwater Elevation Contours, April 22, 2019

Attachment A – CVOC Time-Trend Plots

Attachment B – Laboratory Reports and Data Validation Memorandum

Table 1

**Summary of Groundwater Elevations, April 22, 2019**  
**Former American Linen Supply**  
**700 Dexter Avenue North, Seattle, Washington**

| Sample Location            | Property                | Screen Interval (ft below TOC) | Top of Casing Elevation (feet) | Depth to Groundwater <sup>a</sup> | Groundwater Elevation <sup>b</sup> |
|----------------------------|-------------------------|--------------------------------|--------------------------------|-----------------------------------|------------------------------------|
| <b>Shallow Zone</b>        |                         |                                |                                |                                   |                                    |
| MW-8                       | 800 Aloha Street Parcel | 4.5 to 19                      | 33.19                          | 11.18                             | 22.01                              |
| MW-9                       | 8th Avenue N ROW        | 7 to 22                        | 40.81                          | 13.93                             | 26.88                              |
| MW121                      | 8th Avenue N ROW        | 15 to 25                       | 41.72                          | 11.58                             | 30.14                              |
| MW125                      | Valley Street ROW       | 15 to 30                       | 43.55                          | 14.95                             | 28.60                              |
| MW-154                     | Roy Street ROW          | 25 to 35                       | 52.57                          | 22.40                             | 30.17                              |
| MW-155                     | Roy Street ROW          | 20 to 30                       | 44.05                          | 17.95                             | 26.10                              |
| MW-159                     | 8th Avenue N ROW        | 20 to 30                       | 42.79                          | 15.67                             | 27.12                              |
| MW214                      | Valley Street ROW       | TD = 15                        | 27.32                          | 9.03                              | 18.29                              |
| R-MW5                      | Dexter Avenue N ROW     | 15 to 30                       | 57.03                          | 18.83                             | 38.20                              |
| R-MW6                      | Property                | 12 to 22                       | 45.28                          | Not accessible                    | –                                  |
| SCL-MW101                  | Alley E of 800 Aloha St | --                             | 30.46                          | 7.55                              | 22.91                              |
| SCL-MW105                  | Alley E of 800 Aloha St | --                             | 31.26                          | 7.98                              | 23.28                              |
| SCS-2                      | 800 Aloha Street Parcel | Unknown                        | 39.16                          | 16.29                             | 22.87                              |
| SMW-3                      | Valley Street ROW       | Unknown                        | 26.57                          | 8.71                              | 17.86                              |
| <b>Intermediate A Zone</b> |                         |                                |                                |                                   |                                    |
| BB-8                       | Roy Street ROW          | 30 to 40                       | 43.69                          | 15.36                             | 28.33                              |
| GEI-1                      | Block 37                | 26.8 to 36.8                   | 27.95                          | 9.28                              | 18.67                              |
| MW107                      | 8th Avenue N ROW        | 35 to 45                       | 43.82                          | 13.35                             | 30.47                              |
| MW108                      | Alley                   | 40 to 50                       | 32.78                          | 13.19                             | 19.59                              |
| MW109                      | Alley                   | 35 to 45                       | 34.97                          | 15.62                             | 19.35                              |
| MW110                      | Alley                   | 35 to 45                       | 39.67                          | 20.08                             | 19.59                              |
| MW115                      | 9th Avenue N ROW        | 35 to 45                       | 34.10                          | 15.42                             | 18.68                              |
| MW116                      | 9th Avenue N ROW        | 35 to 45                       | 31.34                          | 12.41                             | 18.93                              |
| MW119                      | 9th Avenue N ROW        | 35 to 45                       | 37.42                          | 18.64                             | 18.78                              |
| MW120                      | 8th Avenue N ROW        | 40 to 50                       | 40.00                          | 15.79                             | 24.21                              |
| MW-142                     | 8th Avenue N ROW        | 40-50                          | 42.12                          | 15.75                             | 26.37                              |
| MW-144                     | 8th Avenue N ROW        | 40-50                          | 43.50                          | 15.73                             | 27.77                              |
| MW-146                     | Roy Street ROW          | 40-50                          | 52.34                          | 22.15                             | 30.19                              |
| MW-156                     | 8th Avenue N ROW        | 40-50                          | 41.24                          | 16.06                             | 25.18                              |
| <b>Intermediate B Zone</b> |                         |                                |                                |                                   |                                    |
| MW111                      | Alley                   | 70 to 80                       | 36.48                          | 17.44                             | 19.04                              |
| MW112                      | Dexter Avenue N ROW     | 75 to 85                       | 57.45                          | 34.71                             | 22.74                              |
| MW126                      | Alley                   | 85 to 95                       | 30.94                          | 12.62                             | 18.32                              |
| W-MW-01                    | 8th Avenue N ROW        | 70 to 80                       | 44.88                          | Not accessible                    | –                                  |

Table 1

**Summary of Groundwater Elevations, April 22, 2019  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

| Sample Location  | Property                  | Screen Interval (ft below TOC) | Top of Casing Elevation (feet) | Depth to Groundwater <sup>a</sup> | Groundwater Elevation <sup>b</sup> |
|--|---------------------------|--------------------------------|--------------------------------|-----------------------------------|------------------------------------|
| MW-143   | 8th Avenue N ROW          | 70-80                          | 42.04                          | 18.42                             | 23.62                              |
| MW-145   | 8th Avenue N ROW          | 70 to 80                       | 43.46                          | 20.62                             | 22.84                              |
| MW-147   | Roy Street ROW            | 70 to 80                       | 51.85                          | 27.14                             | 24.71                              |
| MW-148   | Roy Street ROW            | 70 to 80                       | 43.91                          | 24.26                             | 19.65                              |
| MW-157   | 8th Avenue N ROW          | 70 to 80                       | 41.22                          | 15.32                             | 25.90                              |
| W-MW-02  | 8th Avenue N ROW          | 70 to 80                       | 43.46                          | 16.13                             | 27.33                              |
| <b>Deep Zone</b>   |                           |                                |                                |                                   |                                    |
| FMW-131  | Block 37                  | 63 to 73                       | 27.85                          | 9.82                              | 18.03                              |
| GEI-2  | Block 37                  | 50.5 to 60.5                   | 29.38                          | 11.26                             | 18.12                              |
| MW102  | Valley Street ROW         | 115 to 125                     | 49.19                          | 31.78                             | 17.41                              |
| MW103  | Alley                     | 103.5 to 113.5                 | 35.92                          | 17.50                             | 18.42                              |
| MW104  | 8th Avenue N ROW          | 119 to 129                     | 42.68                          | 24.86                             | 17.82                              |
| MW105  | Roy Street ROW            | 130 to 140                     | 44.17                          | 26.06                             | 18.11                              |
| MW106  | SDOT Property S of Roy St | 130 to 140                     | 51.99                          | 34.53                             | 17.46                              |
| MW113  | 9th Avenue N ROW          | 70 to 80                       | 32.90                          | 14.21                             | 18.69                              |
| MW122  | Alley                     | 105 to 119                     | 30.03                          | 11.60                             | 18.43                              |
| MW123  | Westlake Avenue N ROW     | 70 to 80                       | 27.51                          | 8.89                              | 18.62                              |
| MW124  | Valley Street ROW         | 110 to 120                     | 56.24                          | 38.81                             | 17.43                              |
| MW128  | Westlake Avenue N ROW     | 60 to 70                       | 28.59                          | 10.43                             | 18.16                              |
| FMW-129  | SDOT Property S of Roy St | 84 to 89                       | 38.31                          | 19.72                             | 18.59                              |
| MW-138   | Dexter Ave N              | 105 to 115                     | 57.06                          | 39.64                             | 17.42                              |
| MW-153   | Roy Street ROW            | 120 to 130                     | 54.35                          | 37.12                             | 17.23                              |
| MW-158A  | 8th Avenue N ROW          | 90 to 100                      | 41.09                          | 23.29                             | 17.80                              |
| MW-160   | 8th Avenue N ROW          | 118 to 128                     | 43.46                          | 24.56                             | 18.90                              |
| MW-161   | 8th Avenue N ROW          | 130 to 140                     | 43.82                          | 26.33                             | 17.49                              |
| <b>NOTES:</b>  |                           |                                |                                |                                   |                                    |
| <sup>a</sup> As measured in feet below a fixed spot on the well casing rim.                |                           |                                |                                |                                   |                                    |
| <sup>b</sup> Calculated by subtracting the depth to groundwater from the casing elevation. |                           |                                |                                |                                   |                                    |
| -- = unknown   |                           |                                |                                |                                   |                                    |
| ROW = right-of-way   |                           |                                |                                |                                   |                                    |
| TOC = top of casing (PVC)  |                           |                                |                                |                                   |                                    |
| TD = Total Depth   |                           |                                |                                |                                   |                                    |

Table 2

**Groundwater Field Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

| Sample Location     | Property          | Sample Date               | pH   | Specific Conductance (µS/cm) | Temperature (°C) | Turbidity (NTUs) | Dissolved Oxygen (mg/L) | ORP (mv) | Ferrous Iron (mg/L) |
|---------------------|-------------------|---------------------------|------|------------------------------|------------------|------------------|-------------------------|----------|---------------------|
| <b>Shallow Zone</b> |                   |                           |      |                              |                  |                  |                         |          |                     |
| F13                 | Property          | 03/27/17                  | 6.80 | 756                          | 15.4             | 3.4              | 0.86                    | -139     | 1.0                 |
|                     |                   | 06/22/17                  | 7.00 | 865                          | 20.2             | –                | 0.27                    | -148     | 1.5                 |
|                     |                   | 04/05/18                  | 6.84 | 491                          | 16.6             | –                | 0.50                    | 67       | –                   |
|                     |                   | Decommissioned March 2019 |      |                              |                  |                  |                         |          |                     |
| F5                  | Property          | 03/28/17                  | 6.05 | 1,001                        | 10.9             | 5.8              | 0.99                    | -50.5    | –                   |
|                     |                   | 06/22/17                  | 6.38 | 1,080                        | 19.5             | –                | 0.80                    | -87.1    | –                   |
|                     |                   | Decommissioned March 2019 |      |                              |                  |                  |                         |          |                     |
| F9                  | Property          | 03/27/17                  | 6.69 | 1,270                        | 16.6             | 3.1              | 0.74                    | -151     | –                   |
|                     |                   | 06/22/17                  | 6.76 | 1,309                        | 27.5             | –                | 0.24                    | -149     | –                   |
|                     |                   | Decommissioned March 2019 |      |                              |                  |                  |                         |          |                     |
| G12                 | Property          | 03/27/17                  | 7.34 | 1,296                        | 20.7             | –                | 0.41                    | 150      | 1.25                |
|                     |                   | 06/30/17                  | 6.88 | 1,239                        | 29.1             | –                | 1.30                    | -87      | –                   |
|                     |                   | Decommissioned March 2019 |      |                              |                  |                  |                         |          |                     |
| J5                  | Property          | 03/21/17                  | 6.95 | 251                          | 15.1             | 4.6              | 0.70                    | -114     | 0.6                 |
|                     |                   | 06/26/17                  | 6.94 | 484                          | 19.8             | –                | 0.42                    | -143     | –                   |
|                     |                   | 04/05/18                  | 6.85 | 286                          | 14.1             | –                | 0.50                    | 77       | –                   |
|                     |                   | Decommissioned March 2019 |      |                              |                  |                  |                         |          |                     |
| J15                 | Property          | 03/27/17                  | 7.42 | 935                          | 14.1             | –                | 0.48                    | 141      | 2.0                 |
|                     |                   | 06/26/17                  | 6.86 | 920                          | 20.8             | –                | 0.44                    | -99      | 1.5                 |
|                     |                   | 04/05/18                  | 6.83 | 716                          | 18.1             | –                | 0.40                    | 103      | –                   |
|                     |                   | Decommissioned March 2019 |      |                              |                  |                  |                         |          |                     |
| K8                  | Property          | 03/21/17                  | 7.70 | 251                          | 18.3             | -0.3             | 0.80                    | -121     | 0.0                 |
|                     |                   | 06/26/17                  | 7.76 | 257                          | 22.3             | –                | 0.25                    | -4       | 0.0                 |
|                     |                   | 04/05/18                  | 9.45 | 220                          | 16.7             | –                | 0.70                    | 56       | –                   |
|                     |                   | Decommissioned March 2019 |      |                              |                  |                  |                         |          |                     |
| M15                 | Property          | 03/27/17                  | 7.16 | 1,544                        | 18.7             | –                | 0.60                    | 140      | 2.75                |
|                     |                   | 06/26/17                  | 6.71 | 1,440                        | 25.6             | –                | 0.70                    | -84      | –                   |
|                     |                   | 04/05/18                  | 6.90 | 1,034                        | 18.0             | –                | 0.40                    | 86       | –                   |
|                     |                   | Decommissioned March 2019 |      |                              |                  |                  |                         |          |                     |
| MW121               | 8th Ave N ROW     | 12/26/13                  | 6.89 | 1,610                        | –                | –                | 4.16                    | -30      | 1.9                 |
|                     |                   | 03/28/17                  | 6.63 | 2,608                        | 14.4             | 2.9              | 0.99                    | -122     | 2.0                 |
|                     |                   | 06/20/17                  | 8.29 | 2,437                        | 19.9             | –                | 0.52                    | -88      | 3.0                 |
|                     |                   | 04/05/18                  | 6.64 | 2,028                        | 17.2             | –                | 0.60                    | 120      | –                   |
|                     |                   | 01/31/19                  | 6.87 | 2,396                        | 15.3             | –                | 0.42                    | -3       | –                   |
|                     |                   | 04/29/19                  | 6.75 | 2,521                        | 18.1             | –                | 0.30                    | 9        | –                   |
| MW125               | Valley Street ROW | 12/26/13                  | 6.28 | 1,414                        | –                | –                | 8.68                    | 22       | 1.47                |
|                     |                   | 03/22/17                  | 6.62 | 1,296                        | 14.6             | 3.7              | 1.00                    | -116     | –                   |
|                     |                   | 06/28/17                  | 6.71 | 984                          | 17.1             | –                | 1.91*                   | -101     | –                   |
|                     |                   | 04/06/18                  | 6.89 | 831                          | 17.5             | –                | 0.30                    | -68      | –                   |
|                     |                   | 01/21/19                  | 6.67 | 912                          | 15.8             | –                | 0.48                    | 122      | –                   |
|                     |                   | 04/23/19                  | 6.74 | 987                          | 16.3             | –                | 0.65                    | 65       | –                   |

Table 2

**Groundwater Field Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

| Sample Location           | Property                | Sample Date               | pH                  | Specific Conductance (µS/cm) | Temperature (°C) | Turbidity (NTUs) | Dissolved Oxygen (mg/L) | ORP (mv) | Ferrous Iron (mg/L) |
|---------------------------|-------------------------|---------------------------|---------------------|------------------------------|------------------|------------------|-------------------------|----------|---------------------|
| MW-154                    | Roy St ROW              | 04/30/18                  | 7.26                | 469                          | 16.3             | –                | 0.40                    | 72       | –                   |
|                           |                         | 01/21/19                  | 7.25                | 523                          | 14.4             | –                | 0.61                    | 99       | –                   |
|                           |                         | 04/24/19                  | 7.09                | 459                          | 18.6             | –                | 0.48                    | 103      | –                   |
| MW-155                    | Roy St ROW              | 04/27/18                  | 6.79                | 479                          | 13.3             | –                | 3.20                    | 94       | –                   |
|                           |                         | 01/21/19                  | 6.52                | 500                          | 12.3             | –                | 2.43                    | 119      | –                   |
|                           |                         | 04/23/19                  | 6.51                | 663                          | 14.7             | –                | 1.80                    | 41       | 0.00                |
| MW-159                    | 8th Ave N ROW           | 04/26/18                  | 6.92                | 928                          | 18.9             | –                | 0.70                    | 109      | –                   |
|                           |                         | 01/21/19                  | 6.92                | 1,125                        | 14.1             | –                | 0.59                    | 126      | –                   |
|                           |                         | 04/26/19                  | 6.83                | 1,279                        | 14.5             | –                | 0.54                    | 79       | –                   |
| MW214<br>(dry)            | Valley Street ROW       | 03/30/17                  | 7.47                | 467                          | 11.0             | 3.6              | 5.91                    | -70.1    | –                   |
|                           |                         | 06/21/17                  | –                   | –                            | –                | –                | –                       | –        | –                   |
|                           |                         | 04/09/18                  | 8.94                | 380                          | 13.7             | –                | 8.00                    | 401.2    | –                   |
| MW-8<br>(dry)             | 800 Aloha Street Parcel | 03/20/17                  | 6.47                | 1,080                        | 14.2             | 11.4             | 1.30                    | -4.0     | –                   |
|                           |                         | 06/27/17                  | –                   | –                            | –                | –                | –                       | –        | –                   |
|                           |                         | 04/13/18                  | 5.99                | 540                          | 13.1             | –                | 0.80                    | 261      | –                   |
| MW-9                      | 8th Ave N ROW           | 12/16/13                  | 6.72                | 132                          | –                | –                | 0.20                    | 263      | 3.41                |
|                           |                         | 03/20/17                  | 6.64                | 1,203                        | 13.0             | 0.0              | 1.00                    | -109     | –                   |
|                           |                         | 06/20/17                  | 6.41                | 1,391                        | 20.8             | –                | 0.76                    | -93      | –                   |
|                           |                         | 04/05/18                  | 6.73                | 1,299                        | 13.4             | –                | 0.80                    | 128      | –                   |
|                           |                         | 01/21/19                  | 6.63                | 1,179                        | 12.5             | –                | 0.71                    | 143      | –                   |
|                           |                         | 04/26/19                  | 6.68                | 632                          | 16.6             | –                | 0.50                    | 62       | –                   |
| N7                        | Property                | 03/30/17                  | 6.82                | 350                          | 15.9             | 2.8              | 1.11                    | -73.8    | 0.0                 |
|                           |                         | 06/27/17                  | 6.83                | 505                          | 24.9             | 1.7              | 1.74*                   | -3.5     | 0.25                |
|                           |                         | Decommissioned March 2019 |                     |                              |                  |                  |                         |          |                     |
| R-MW2                     | Property                | 03/21/17                  | 7.00                | 723                          | 11.4             | 17.6             | 0.80                    | -161     | –                   |
|                           |                         | 06/15/17                  | 6.78                | 766                          | 15.5             | –                | 0.43                    | -161     | –                   |
|                           |                         | 04/02/18                  | 6.68                | 737                          | 14.5             | –                | 0.70                    | 49       | –                   |
| Decommissioned March 2019 |                         |                           |                     |                              |                  |                  |                         |          |                     |
| R-MW3                     | Property                | 03/21/17                  | 7.06                | 1,616                        | 16.7             | 4.1              | 0.90                    | -38.7    | –                   |
|                           |                         | 06/28/17                  | 7.11                | 1,258                        | 23.5             | –                | 1.01                    | #####    | –                   |
|                           |                         | 04/04/18                  | 6.96                | 1,241                        | 16.8             | –                | 0.50                    | 98.3     | –                   |
| Decommissioned March 2019 |                         |                           |                     |                              |                  |                  |                         |          |                     |
| R-MW5                     | 8th Ave N ROW           | 03/23/17                  | 6.12                | 537                          | 17.1             | –                | 0.80                    | -36.6    | 1.0                 |
|                           |                         | 06/16/17                  | 5.85                | 516                          | 17.6             | –                | 1.12                    | #####    | –                   |
|                           |                         | 04/11/18                  | 9.57 <sup>(a)</sup> | 504                          | 15.5             | –                | 0.50                    | 213.2    | –                   |
|                           |                         | 01/03/19                  | 5.96                | 533                          | 14.7             | –                | 0.81                    | 71.1     | –                   |
|                           |                         | 04/22/19                  | 6.14                | 410                          | 15.9             | –                | 0.54                    | 100.2    | –                   |
| R-MW6                     | 8th Ave N ROW           | 03/21/17                  | 6.56                | 1,280                        | 14.8             | 6.6              | 0.80                    | -38.5    | –                   |
|                           |                         | 06/20/17                  | 6.57                | 1,407                        | 18.0             | –                | 0.84                    | -55.5    | 1.5                 |
|                           |                         | 04/06/18                  | 6.72                | 1,137                        | 16.8             | –                | 0.70                    | 113.1    | –                   |
|                           |                         | 01/25/19                  | 6.75                | 1,055                        | 14.9             | –                | 0.33                    | #####    | –                   |
|                           |                         | 04/25/19                  | 6.77                | 1,295                        | 17.5             | –                | 0.40                    | 18.0     | –                   |

Table 2

**Groundwater Field Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

| Sample Location            | Property                      | Sample Date | pH                   | Specific Conductance (µS/cm) | Temperature (°C) | Turbidity (NTUs) | Dissolved Oxygen (mg/L) | ORP (mv) | Ferrous Iron (mg/L) |
|----------------------------|-------------------------------|-------------|----------------------|------------------------------|------------------|------------------|-------------------------|----------|---------------------|
| SCL-MW101                  | Alley Between 8th & 9th Ave N | 03/28/17    | 7.34                 | 834                          | 11.8             | –                | 0.35                    | 118      | –                   |
|                            |                               | 06/14/17    | 6.35                 | 628                          | 17.9             | –                | 0.12                    | -49      | –                   |
|                            |                               | 04/06/18    | 6.61                 | 654                          | 14.3             | –                | 0.30                    | 66       | –                   |
| SCL-MW105                  | Alley Between 8th & 9th Ave N | 03/28/17    | 7.19                 | 1,049                        | 12.6             | –                | 0.50                    | 136      | –                   |
|                            |                               | 06/15/17    | 6.45                 | 1,086                        | 15.8             | –                | 1.11                    | -95      | –                   |
|                            |                               | 04/06/18    | 6.73                 | 968                          | 15.4             | –                | 0.40                    | 76       | –                   |
| SCS-2                      | 800 Aloha Street Parcel       | 03/20/17    | 6.50                 | 947                          | 13.0             | 1.6              | 1.00                    | -142     | –                   |
|                            |                               | 06/12/17    | 6.41                 | 761                          | 17.3             | –                | 0.59                    | -31      | –                   |
|                            |                               | 04/13/18    | 10.72 <sup>(a)</sup> | 199                          | 10.5             | –                | 0.80                    | 215      | –                   |
| SMW-3                      | Valley Street ROW             | 03/30/17    | 6.48                 | 743                          | 11.8             | 2.9              | 0.98                    | -85.7    | –                   |
|                            |                               | 06/21/17    | 6.35                 | 589                          | 20.9             | –                | 0.41                    | -57.3    | –                   |
|                            |                               | 04/09/18    | 7.79 <sup>(a)</sup>  | 807                          | 14.9             | –                | 0.60                    | -17.8    | –                   |
| <b>Intermediate A Zone</b> |                               |             |                      |                              |                  |                  |                         |          |                     |
| BB-8                       | Roy Street ROW                | 12/29/13    | 6.56                 | 8,560                        | –                | –                | 0.72                    | 224      | 0.01                |
|                            |                               | 03/22/17    | 6.74                 | 621                          | 14.6             | -0.6             | 1.80                    | -22.9    | 0.0                 |
|                            |                               | 06/14/17    | 6.29                 | 649                          | 14.5             | –                | 1.12                    | 187.9    | 0.0                 |
|                            |                               | 04/11/18    | 6.96                 | 512                          | 14.5             | –                | 0.70                    | 84.9     | 0.0                 |
|                            |                               | 01/23/19    | 6.80                 | 700                          | 12.9             | –                | 0.76                    | 154.2    | 0.0                 |
|                            |                               | 04/23/19    | 6.94                 | 649                          | 14.2             | –                | 1.28                    | 33.8     | 0.0                 |
| GEI-1                      | Block 37                      | 03/24/17    | 6.41                 | 1,127                        | 12.0             | 24.1             | 0.80                    | -103     | 1.0                 |
|                            |                               | 06/13/17    | 6.65                 | 553                          | 14.9             | –                | 0.56                    | -38      | –                   |
|                            |                               | 04/22/19    | 6.35                 | 1,099                        | 13.3             | –                | 0.68                    | -46      | –                   |
| MW107                      | 8th Ave N ROW                 | 12/16/13    | 6.62                 | 900                          | –                | –                | 1.14                    | 22       | 0.43                |
|                            |                               | 03/27/17    | 7.10                 | 1,434                        | 13.7             | –                | 0.50                    | 141      | 2.0                 |
|                            |                               | 06/19/17    | 6.24                 | 1,434                        | 22.5             | –                | 0.77                    | -30      | 1.5                 |
|                            |                               | 04/09/18    | 6.73                 | 1,193                        | 18.4             | –                | 0.30                    | 49       | 4.0                 |
|                            |                               | 01/30/19    | 6.99                 | 1,299                        | 11.0             | –                | 0.74                    | 127      | –                   |
|                            |                               | 05/01/19    | 6.85                 | 1,216                        | 16.9             | –                | 0.33                    | 24       | 2.0                 |
| MW108                      | Alley Between 8th & 9th Ave N | 12/17/13    | 6.36                 | 1,570                        | –                | –                | 0.50                    | -72      | 21.7                |
|                            |                               | 03/28/17    | 6.65                 | 1,410                        | 13.6             | 2.0              | 0.97                    | -99      | 2.5                 |
|                            |                               | 06/27/17    | 6.72                 | 1,252                        | 16.3             | –                | 4.45*                   | -108     | 2.0                 |
|                            |                               | 04/06/18    | 6.69                 | 1,026                        | 14.6             | –                | 0.60                    | 136      | –                   |
|                            |                               | 01/22/19    | 6.77                 | 1,053                        | 11.9             | –                | 0.80                    | 132      | –                   |
|                            |                               | 04/29/19    | 6.61                 | 1,296                        | 14.4             | –                | 0.42                    | -18      | –                   |
| MW109                      | Alley Between 8th & 9th Ave N | 12/17/13    | 6.68                 | 1,540                        | –                | –                | 0.31                    | -78      | 16.2                |
|                            |                               | 03/29/17    | 6.59                 | 916                          | 14.9             | 2.8              | 0.77                    | -115     | 1.5                 |
|                            |                               | 06/27/17    | 6.72                 | 1,129                        | 16.9             | –                | 3.85*                   | -107     | 1.5                 |
|                            |                               | 04/06/18    | 6.71                 | 1,112                        | 14.3             | –                | 0.50                    | 136      | –                   |
|                            |                               | 01/23/19    | 6.97                 | 1,203                        | 15.7             | –                | 0.59                    | 143      | –                   |
|                            |                               | 04/29/19    | 6.52                 | 1,128                        | 14.2             | –                | 0.45                    | 40       | –                   |

Table 2

**Groundwater Field Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

| Sample Location | Property                      | Sample Date               | pH                   | Specific Conductance (μS/cm) | Temperature (°C) | Turbidity (NTUs) | Dissolved Oxygen (mg/L) | ORP (mv) | Ferrous Iron (mg/L) |
|-----------------|-------------------------------|---------------------------|----------------------|------------------------------|------------------|------------------|-------------------------|----------|---------------------|
| MW110           | Alley Between 8th & 9th Ave N | 12/19/13                  | 8.82                 | 888                          | –                | –                | 0.52                    | 291      | 0.04                |
|                 |                               | 03/23/17                  | 6.66                 | 1,109                        | 13.1             | 0.4              | 1.05                    | -46.5    | 0.1                 |
|                 |                               | 06/27/17                  | 7.13                 | 1,010                        | 17.2             | –                | 1.42*                   | 56.7     | 0.0                 |
|                 |                               | 04/09/18                  | 6.22                 | 895                          | 16.1             | –                | 0.70                    | 431.4    | –                   |
|                 |                               | 01/23/19                  | 6.74                 | 1,020                        | 14.5             | –                | 0.41                    | 103.2    | –                   |
|                 |                               | 04/26/19                  | 6.67                 | 998                          | 16.7             | –                | 0.49                    | 135.0    | –                   |
| MW115           | 9th Ave N ROW                 | 12/19/13                  | 6.80                 | 1,220                        | –                | –                | 0.71                    | -61      | 6.69                |
|                 |                               | 03/22/17                  | 7.28                 | 880                          | 14.8             | –                | 0.51                    | 160      | 1.5                 |
|                 |                               | 06/22/17                  | 6.85                 | 778                          | 20.2             | –                | 0.39                    | -102     | 1.5                 |
|                 |                               | 04/11/18                  | 6.91                 | 860                          | 13.1             | –                | 0.40                    | 89       | –                   |
|                 |                               | 01/30/19                  | 7.03                 | 912                          | 12.7             | –                | 0.57                    | 116      | –                   |
| MW116           | 9th Ave N ROW                 | 12/19/13                  | 6.84                 | 498                          | –                | –                | 0.67                    | 75       | 2.65                |
|                 |                               | 03/21/17                  | 7.05                 | 814                          | 13.3             | 6.2              | 0.80                    | -127     | 3.9                 |
|                 |                               | 06/16/17                  | 6.86                 | 749                          | 18.7             | –                | 0.41                    | -641     | 1.8                 |
|                 |                               | 04/11/18                  | 7.11                 | 830                          | 13.3             | –                | 0.40                    | 75       | –                   |
|                 |                               | 01/30/19                  | 7.09                 | 771                          | 15.5             | –                | 0.65                    | -122     | 2.0                 |
| MW119           | 9th Ave N ROW                 | 12/19/13                  | 9.56                 | 579                          | –                | –                | 0.34                    | 295      | 18.6                |
|                 |                               | 03/29/17                  | 6.41                 | 631                          | 13.4             | 2.4              | 0.85                    | -90.7    | 2.0                 |
|                 |                               | 06/28/17                  | 6.29                 | 676                          | 17.4             | –                | 4.88*                   | 11.0     | 1.5                 |
|                 |                               | 04/05/18                  | 6.30                 | 517                          | 13.1             | –                | 0.60                    | 119.1    | –                   |
|                 |                               | 01/21/19                  | 6.76                 | 67                           | 12.6             | –                | 6.76                    | 114.4    | –                   |
|                 |                               | 04/29/19                  | 6.33                 | 652                          | 15.1             | –                | 0.42                    | -2.7     | –                   |
| MW120           | 8th Ave N ROW                 | 12/19/13                  | 6.63                 | 743                          | –                | –                | 1.30                    | -13      | 0.17                |
|                 |                               | 03/28/17                  | 7.93                 | 622                          | 9.5              | –                | 0.75                    | 123      | –                   |
|                 |                               | 06/28/17                  | 6.60                 | 568                          | 17.8             | –                | 1.33*                   | 91       | –                   |
|                 |                               | 04/09/18                  | 6.96                 | 423                          | 15.1             | –                | 0.40                    | 37       | 0.00                |
|                 |                               | 01/24/19                  | 6.66                 | 649                          | 14.0             | –                | 0.73                    | 110      | –                   |
|                 |                               | 05/03/19                  | 6.46                 | 533                          | 14.6             | –                | 0.36                    | 253      | NR                  |
| MW131           | Property                      | 03/27/17                  | 7.01                 | 2,045                        | 19.5             | 2.4              | 0.85                    | -134     | 1.9                 |
|                 |                               | 06/20/17                  | 15.39 <sup>(a)</sup> | 2,071                        | 21.9             | –                | 0.62                    | -86      | –                   |
|                 |                               | 04/16/18                  | 6.96                 | 1,610                        | 17.3             | –                | 0.30                    | 18       | 1.8                 |
|                 |                               | 10/25/18                  | 6.66                 | 1,546                        | 18.9             | –                | 0.39                    | -55      | –                   |
|                 |                               | 12/12/18                  | 6.78                 | 1,899                        | 14.5             | –                | 0.44                    | 129      | –                   |
|                 |                               | 01/29/19                  | 6.86                 | 1,948                        | 9.2              | –                | 0.77                    | 137      | –                   |
|                 |                               | 03/11/19                  | 6.70                 | 1,849                        | 14.0             | –                | 1.30                    | -21      | –                   |
|                 |                               | Decommissioned March 2019 |                      |                              |                  |                  |                         |          |                     |
| MW-142          | 8th Ave N ROW                 | 04/27/18                  | 6.96                 | 1,349                        | 18.9             | –                | 0.50                    | 133      | 1.50                |
|                 |                               | 01/28/19                  | 6.94                 | 1,528                        | 11.7             | 7.9              | 0.75                    | 152      | 2.00                |
|                 |                               | 04/24/19                  | 7.00                 | 1,541                        | 15.6             | –                | 0.70                    | 121      | 1.20                |
| MW-144          | 8th Ave N ROW                 | 04/27/18                  | 7.34                 | 1,739                        | 16.4             | –                | 0.40                    | 100      | 0.50                |
|                 |                               | 01/28/19                  | 7.44                 | 1,798                        | 13.1             | 5.3              | 0.57                    | 125      | –                   |
|                 |                               | 04/23/19                  | 7.39                 | 1,749                        | 16.8             | –                | 0.45                    | 67       | 1.2                 |

Table 2

**Groundwater Field Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

| Sample Location            | Property                      | Sample Date               | pH   | Specific Conductance (μS/cm) | Temperature (°C) | Turbidity (NTUs)    | Dissolved Oxygen (mg/L) | ORP (mv) | Ferrous Iron (mg/L) |
|----------------------------|-------------------------------|---------------------------|------|------------------------------|------------------|---------------------|-------------------------|----------|---------------------|
| MW-146                     | Roy St ROW                    | 04/30/18                  | 7.27 | 694                          | 17.0             | –                   | 0.40                    | 95       | 1.25                |
|                            |                               | 01/22/19                  | 7.56 | 621                          | 12.1             | –                   | 0.48                    | 122      | 2.00                |
|                            |                               | 04/24/19                  | 7.20 | 564                          | 16.5             | –                   | 0.76                    | 11       | 2.50                |
| MW-149                     | Property                      | 04/10/18                  | 6.57 | 895                          | 16.1             | 64.2 <sup>(b)</sup> | 0.70                    | 201      | 1.8                 |
|                            |                               | 10/25/18                  | 6.41 | 814                          | 19.3             | –                   | 0.17                    | -31      | –                   |
|                            |                               | 12/13/18                  | 6.56 | 1,354                        | 16.5             | –                   | 1.79                    | 132      | 0.5                 |
|                            |                               | 01/29/19                  | 6.67 | 1,209                        | 17.1             | 2.9                 | 17.05                   | 121      | 0.0                 |
|                            |                               | 03/13/19                  | 6.29 | 1,648                        | 17.2             | –                   | 0.12                    | -178     | –                   |
|                            |                               | Decommissioned March 2019 |      |                              |                  |                     |                         |          |                     |
| MW-151                     | Property                      | 04/10/18                  | 6.69 | 809                          | 15.1             | 23.5 <sup>(b)</sup> | 0.60                    | 64       | 0.8                 |
|                            |                               | 10/25/18                  | 6.26 | 3,599                        | 18.5             | –                   | 0.06                    | -135     | –                   |
|                            |                               | 12/14/18                  | 6.74 | 2,314                        | 11.0             | –                   | 0.13                    | -122     | –                   |
|                            |                               | 01/31/19                  | 6.86 | 2,151                        | 13.0             | –                   | 0.18                    | 21       | –                   |
|                            |                               | 03/12/19                  | 6.40 | 1,430                        | 12.3             | –                   | 0.23                    | -278     | –                   |
|                            |                               | Decommissioned March 2019 |      |                              |                  |                     |                         |          |                     |
| MW-156                     | 8th Ave N ROW                 | 04/26/18                  | 6.72 | 996                          | 18.3             | –                   | 0.60                    | 116      | 0.00                |
|                            |                               | 01/24/19                  | 6.70 | 1,263                        | 16.1             | 78.1                | 0.54                    | 131      | 0.00                |
|                            |                               | 04/24/19                  | 6.73 | 1,481                        | 16.8             | –                   | 0.57                    | 103      | 0.40                |
| <b>Intermediate B Zone</b> |                               |                           |      |                              |                  |                     |                         |          |                     |
| MW111                      | Alley Between 8th & 9th Ave N | 12/17/13                  | 7.58 | 498                          | –                | –                   | 1.19                    | -99      | 0.18                |
|                            |                               | 03/23/17                  | 7.62 | 447                          | 14.0             | -0.5                | 1.19                    | -147     | 0.1                 |
|                            |                               | 06/14/17                  | 7.29 | 431                          | 19.7             | –                   | 1.15                    | -33      | –                   |
|                            |                               | 04/06/18                  | 7.75 | 605                          | 15.3             | –                   | 0.60                    | 83       | –                   |
|                            |                               | 01/23/19                  | 7.86 | 528                          | 14.2             | –                   | 0.50                    | -124     | –                   |
|                            |                               | 04/22/19                  | 7.84 | 384                          | 13.7             | –                   | 0.58                    | -46      | –                   |
| MW112                      | Dexter Ave N ROW              | 12/26/13                  | 7.79 | 378                          | –                | –                   | 2.58                    | 223      | 0.23                |
|                            |                               | 03/22/17                  | 7.96 | 419                          | 14.9             | –                   | 0.93                    | 132      | –                   |
|                            |                               | 06/16/17                  | 7.11 | 49                           | 22.0             | –                   | 5.22                    | -457     | –                   |
|                            |                               | 04/12/18                  | 7.07 | 41                           | 14.8             | –                   | 1.10                    | 35       | 0.00                |
|                            |                               | 12/21/18                  | 6.88 | 108                          | 13.9             | –                   | 0.77                    | 68       | –                   |
|                            |                               | 04/22/19                  | 7.52 | 196                          | 17.0             | –                   | 0.38                    | -70      | 1.00                |
| MW126                      | Alley Between 8th & 9th Ave N | 03/28/17                  | 7.41 | 397                          | 12.8             | 2.0                 | 1.37                    | -112     | –                   |
|                            |                               | 06/15/17                  | 7.69 | 385                          | 15.9             | –                   | 0.70                    | -64      | –                   |
|                            |                               | 04/06/18                  | 7.87 | 353                          | 14.3             | –                   | 0.30                    | 99       | –                   |
|                            |                               | 01/22/19                  | 7.88 | 432                          | 10.7             | –                   | 1.25                    | 115      | –                   |
|                            |                               | 04/29/19                  | 7.34 | 427                          | 14.7             | –                   | 0.42                    | 7        | –                   |
| MW130                      | Property                      | 03/29/17                  | 7.18 | 751                          | 9.6              | –                   | 2.66                    | 132      | 1.0                 |
|                            |                               | 06/30/17                  | 7.32 | 858                          | 29.7             | –                   | 0.99                    | -70      | 0.0                 |
|                            |                               | 05/21/18                  | 7.69 | 571                          | 26.3             | –                   | 1.07                    | -72      | 0.0                 |
|                            |                               | 12/17/18                  | 7.74 | 1,183                        | 16.5             | –                   | 44.9                    | –        | 0.0                 |
|                            |                               | 01/31/19                  | 7.40 | 1,176                        | 21.4             | –                   | 59.05                   | 112      | 0.0                 |
|                            |                               | Decommissioned March 2019 |      |                              |                  |                     |                         |          |                     |



**Table 2**

**Groundwater Field Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

| Sample Location | Property    | Sample Date               | pH                   | Specific Conductance (μS/cm) | Temperature (°C) | Turbidity (NTUs)    | Dissolved Oxygen (mg/L) | ORP (mv) | Ferrous Iron (mg/L) |
|-----------------|-------------|---------------------------|----------------------|------------------------------|------------------|---------------------|-------------------------|----------|---------------------|
| MW-132          | Property    | 09/25/17                  | 8.52 <sup>(a)</sup>  | 652                          | 27.3             | 39.7 <sup>(b)</sup> | 0.70                    | #####    | -                   |
|                 |             | 04/26/18                  | 7.70                 | 466                          | 25.9             | -                   | 3.50                    | 81.6     | -                   |
|                 |             | 10/25/18                  | 7.58                 | 568                          | 19.1             | -                   | 1.10                    | 16.7     | -                   |
|                 |             | 12/13/18                  | 7.60                 | 668                          | 14.2             | -                   | 0.93                    | 117.0    | -                   |
|                 |             | 01/31/19                  | 7.66                 | 712                          | 14.9             | -                   | 0.74                    | -40.3    | -                   |
|                 |             | 03/11/19                  | 7.62                 | 592                          | 17.2             | -                   | 0.99                    | -24      | -                   |
|                 |             | Decommissioned March 2019 |                      |                              |                  |                     |                         |          |                     |
| MW-134          | Property    | 09/22/17                  | 13.08 <sup>(a)</sup> | 565                          | 19.0             | MAX <sup>(b)</sup>  | 0.91                    | -47.7    | -                   |
|                 |             | 04/16/18                  | 7.10                 | 598                          | 15.7             | -                   | 0.10                    | #####    | 0.00                |
|                 |             | 10/25/18                  | 7.41                 | 748                          | 18.3             | -                   | 0.30                    | 157.3    | -                   |
|                 |             | 12/12/18                  | 7.56                 | 649                          | 17.0             | -                   | 0.50                    | #####    | -                   |
|                 |             | 01/28/19                  | 7.74                 | 747                          | 17.1             | -                   | 0.53                    | #####    | -                   |
|                 |             | 03/12/19                  | 7.06                 | 759                          | 16.8             | -                   | 0.38                    | 171      | -                   |
|                 |             | Decommissioned March 2019 |                      |                              |                  |                     |                         |          |                     |
| MW-135          | Property    | 09/25/17                  | 9.11 <sup>(a)</sup>  | 871                          | 25.3             | 208 <sup>(b)</sup>  | 1.10                    | -24.8    | -                   |
|                 |             | 04/25/18                  | 7.38                 | 837                          | 19.5             | -                   | 0.80                    | 99.2     | 1.50                |
|                 |             | 10/25/18                  | 7.19                 | 1034                         | 17.6             | -                   | 0.77                    | -68.3    | -                   |
|                 |             | 12/13/18                  | 7.41                 | 1341                         | 15.4             | -                   | 0.47                    | 124.0    | 0.75                |
|                 |             | 01/31/19                  | 7.34                 | 1269                         | 21.1             | -                   | 0.13                    | #####    | -                   |
|                 |             | 03/13/19                  | 7.13                 | 1,661                        | 15.0             | -                   | 0.18                    | 194      | -                   |
|                 |             | Decommissioned March 2019 |                      |                              |                  |                     |                         |          |                     |
| MW-136          | Property    | 09/25/17                  | 10.07 <sup>(a)</sup> | 465                          | 24.2             | MAX <sup>(b)</sup>  | 0.60                    | -61.0    | -                   |
|                 |             | 04/16/18                  | 7.94                 | 447                          | 21.9             | -                   | 0.40                    | -77.2    | 0.60                |
|                 |             | 10/29/18                  | 7.57                 | 521                          | 20.8             | -                   | 0.62                    | 10.6     | -                   |
|                 |             | 12/13/18                  | 7.56                 | 539                          | 18.6             | -                   | 0.34                    | #####    | -                   |
|                 |             | 02/01/19                  | 7.41                 | 546                          | 18.7             | -                   | 1.42                    | -53.6    | -                   |
|                 |             | 03/12/19                  | 7.36                 | 687                          | 14.2             | -                   | 0.50                    | 172      | -                   |
|                 |             | Decommissioned March 2019 |                      |                              |                  |                     |                         |          |                     |
| MW-139          | Property    | 09/25/17                  | 9.65 <sup>(a)</sup>  | 340                          | 26.4             | MAX <sup>(b)</sup>  | 0.60                    | -163     | -                   |
|                 |             | 04/25/18                  | 7.79                 | 432                          | 20.3             | -                   | 0.40                    | 89       | 0.75                |
|                 |             | 10/25/18                  | 7.70                 | 445                          | 18.5             | -                   | 0.84                    | -13      | -                   |
|                 |             | 12/13/18                  | 7.56                 | 531                          | 12.5             | -                   | 0.91                    | 120      | -                   |
|                 |             | 01/28/19                  | 7.92                 | 534                          | 13.4             | -                   | 1.19                    | -134     | -                   |
|                 |             | 03/11/19                  | 7.11                 | 703                          | 18.4             | -                   | 0.70                    | -56      | -                   |
|                 |             | Decommissioned March 2019 |                      |                              |                  |                     |                         |          |                     |
| MW-143          | 8th Ave ROW | 04/30/18                  | 7.83                 | 905                          | 15.4             | -                   | 0.60                    | 97       | 0.50                |
|                 |             | 01/29/19                  | 7.64                 | 950                          | 18.1             | 80.4                | 0.23                    | -148     | 0.75                |
|                 |             | 04/24/19                  | 7.29                 | 965                          | 14.7             | -                   | 0.83                    | 100      | 0.30                |
| MW-145          | 8th Ave ROW | 04/27/18                  | 8.01                 | 718                          | 17.0             | -                   | 0.30                    | 101      | 0.00                |
|                 |             | 01/29/19                  | 7.60                 | 740                          | 17.4             | 94.9                | 0.98                    | -101     | 0.00                |
|                 |             | 04/26/19                  | 7.89                 | 722                          | 16.5             | -                   | 0.36                    | -43      | 0.00                |

Table 2

**Groundwater Field Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

| Sample Location  | Property               | Sample Date               | pH   | Specific Conductance (µS/cm) | Temperature (°C) | Turbidity (NTUs)    | Dissolved Oxygen (mg/L) | ORP (mv) | Ferrous Iron (mg/L) |
|------------------|------------------------|---------------------------|------|------------------------------|------------------|---------------------|-------------------------|----------|---------------------|
| MW-147           | Roy St ROW             | 05/01/18                  | 7.85 | 911                          | 16.8             | –                   | 0.40                    | 79       | –                   |
|                  |                        | 01/22/19                  | 7.60 | 892                          | 8.6              | –                   | 0.79                    | 118      | 1.00                |
|                  |                        | 04/23/19                  | 7.07 | 685                          | 17.3             | –                   | 0.42                    | -103     | 1.50                |
| MW-148           | Roy St ROW             | 05/01/18                  | 8.06 | 499                          | 13.7             | –                   | 0.40                    | 107      | 0.25                |
|                  |                        | 01/23/19                  | 7.80 | 706                          | 12.0             | –                   | 0.66                    | 116      | –                   |
|                  |                        | 04/26/19                  | 6.94 | 717                          | 13.8             | –                   | 0.43                    | 82       | 0.40                |
| MW-150           | Property               | 04/10/18                  | 7.11 | 845                          | 17.5             | 73.5 <sup>(b)</sup> | 0.60                    | 315      | 0.00                |
|                  |                        | 10/25/18                  | 6.79 | 1,282                        | 18.6             | –                   | 0.05                    | -114     | –                   |
|                  |                        | 12/12/18                  | 6.95 | 1,812                        | 15.0             | –                   | 0.39                    | 134      | –                   |
|                  |                        | 01/29/19                  | 6.88 | 1,959                        | 15.8             | –                   | 0.15                    | 123      | –                   |
|                  |                        | 03/13/19                  | 6.39 | 2,489                        | 16.5             | –                   | 0.19                    | -214     | –                   |
|                  |                        | Decommissioned March 2019 |      |                              |                  |                     |                         |          |                     |
| MW-152           | Property               | 04/10/18                  | 7.45 | 846                          | 15.2             | 15.8 <sup>(b)</sup> | 0.60                    | 372      | 0.00                |
|                  |                        | 10/26/18                  | 6.83 | 894                          | 17.0             | –                   | 0.62                    | -85      | –                   |
|                  |                        | 12/14/18                  | 6.47 | 1,207                        | 14.5             | –                   | 0.75                    | 116      | 1.00                |
|                  |                        | 01/31/19                  | 7.26 | 1632                         | 11.6             | –                   | 9.10                    | 125      | –                   |
|                  |                        | 03/12/19                  | 6.47 | 1,922                        | 12.9             | –                   | 0.29                    | -186     | –                   |
|                  |                        | Decommissioned March 2019 |      |                              |                  |                     |                         |          |                     |
| MW-157           | 8th Ave N ROW          | 04/26/18                  | 6.92 | 867                          | 20.7             | –                   | 0.70                    | 97       | –                   |
|                  |                        | 01/24/19                  | 6.86 | 885                          | 14.3             | –                   | 0.71                    | -64      | 3.00                |
|                  |                        | 04/24/19                  | 6.90 | 1296                         | 17.9             | –                   | 0.31                    | 74       | 3.00                |
| W-MW-01          | 8th Ave N ROW          | 04/13/18                  | 7.91 | 539                          | 14.5             | –                   | 0.40                    | 67       | 0.8                 |
|                  |                        | 10/29/18                  | 7.50 | 565                          | 16.6             | –                   | 0.67                    | -91      | –                   |
|                  |                        | 12/13/18                  | 7.36 | 583                          | 17.9             | –                   | 0.34                    | -123     | –                   |
|                  |                        | 01/25/19                  | 7.46 | 703                          | 12.4             | MAX <sup>(b)</sup>  | 0.51                    | 127      | 1.5                 |
|                  |                        | 03/11/19                  | 7.36 | 737                          | 15.4             | –                   | 0.36                    | 198      | –                   |
|                  |                        | 04/25/19                  | 7.64 | 758                          | 16.7             | –                   | 0.61                    | 32       | 0.6                 |
| W-MW-02          | 8th Ave N ROW          | 12/16/13                  | 7.05 | 999                          | –                | –                   | 0.30                    | -84      | 0.87                |
|                  |                        | 03/27/17                  | 6.53 | 1,239                        | 17.8             | –                   | 0.41                    | 135      | 1.75                |
|                  |                        | 06/19/17                  | 6.02 | 1,326                        | 20.0             | –                   | 1.45*                   | -11      | 1.50                |
|                  |                        | 06/12/18                  | 6.80 | 1,594                        | 16.1             | –                   | 0.75                    | 23       | 3.40                |
|                  |                        | 10/26/18                  | 6.32 | 1,763                        | 19.2             | –                   | 0.41                    | -63      | –                   |
|                  |                        | 12/12/18                  | 6.51 | 2,025                        | 15.7             | –                   | 0.44                    | 125      | –                   |
|                  |                        | 01/25/19                  | 6.49 | 1,687                        | 16.9             | 25.2                | 0.53                    | -52      | 2.00                |
|                  |                        | 03/11/19                  | 6.50 | 1,832                        | 14.8             | –                   | 0.95                    | -9       | –                   |
|                  |                        | 04/23/19                  | 6.68 | 1,688                        | 13.7             | –                   | 0.72                    | 52       | 0.50                |
| <b>Deep Zone</b> |                        |                           |      |                              |                  |                     |                         |          |                     |
| FMW-129          | SDOT Property S of Roy | 04/10/17                  | 8.88 | 891                          | 12.4             | –                   | 0.82                    | -116     | 0.0                 |
|                  |                        | 06/23/17                  | 6.82 | 703                          | 20.2             | –                   | 0.60                    | -31      | 1.0                 |
|                  |                        | 05/01/19                  | 6.83 | 666                          | 15.9             | –                   | 0.44                    | 7        | –                   |
| FMW-131          | Block 37               | 03/24/17                  | 6.73 | 342                          | 13.3             | 2.9                 | 0.84                    | -41.6    | 0.5                 |
|                  |                        | 06/23/17                  | 6.71 | 552                          | 15.4             | –                   | 0.78                    | 25.1     | 0.25                |
|                  |                        | 04/22/19                  | 6.44 | 224                          | 12.6             | –                   | 0.41                    | -22.3    | –                   |

Table 2

**Groundwater Field Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

| Sample Location | Property                      | Sample Date | pH                  | Specific Conductance (μS/cm) | Temperature (°C) | Turbidity (NTUs)   | Dissolved Oxygen (mg/L) | ORP (mv) | Ferrous Iron (mg/L) |
|-----------------|-------------------------------|-------------|---------------------|------------------------------|------------------|--------------------|-------------------------|----------|---------------------|
| FMW-3D          | Block 31                      | 03/24/17    | 6.85                | 302                          | 13.7             | 16.9               | 1.06                    | -74.7    | –                   |
|                 |                               | 06/23/17    | 6.81                | 356                          | 19.9             | –                  | 0.48                    | -16.5    | –                   |
| Decommissioned  |                               |             |                     |                              |                  |                    |                         |          |                     |
| GEI-2           | Block 37                      | 03/24/17    | 6.43                | 890                          | 12.6             | 0.5                | 0.84                    | -77.6    | 0.25                |
|                 |                               | 06/23/17    | 6.68                | 804                          | 16.0             | –                  | 0.45                    | -80.0    | 1.0                 |
|                 |                               | 04/22/19    | 6.61                | 933                          | 13.0             | –                  | 0.37                    | -44.6    | –                   |
| MW102           | Valley Street ROW             | 03/29/17    | 7.87                | 417                          | 11.6             | –                  | 1.55                    | 148      | –                   |
|                 |                               | 06/15/17    | 7.89                | 292                          | 16.8             | –                  | 0.69                    | -88      | –                   |
|                 |                               | 04/25/18    | 7.89                | 297                          | 19.5             | –                  | 0.40                    | 66       | 1.00                |
|                 |                               | 01/24/19    | 8.01                | 314                          | 11.5             | –                  | 0.63                    | -124     | 0.00                |
|                 |                               | 05/01/19    | 8.32                | 303                          | 16.9             | –                  | 0.64                    | 97       | 0.50                |
| MW103           | Alley Between 8th & 9th Ave N | 12/18/13    | 10.45               | 735                          | –                | –                  | 0.26                    | 267      | 1.39                |
|                 |                               | 03/23/17    | 7.49                | 799                          | 13.4             | –                  | 0.91                    | 155      | 0.25                |
|                 |                               | 06/12/17    | 7.35                | 648                          | 17.0             | –                  | 0.31                    | -88      | 1.75                |
|                 |                               | 04/06/18    | 7.52                | 521                          | 15.1             | –                  | 0.60                    | 91       | –                   |
|                 |                               | 01/23/19    | 9.60                | 359                          | 13.8             | –                  | 0.55                    | 126      | –                   |
|                 |                               | 04/22/19    | 7.21                | 693                          | 13.4             | –                  | 0.60                    | 6        | –                   |
| MW104           | 8th Ave N ROW                 | 12/17/13    | 8.49                | 591                          | –                | –                  | 0.48                    | 245      | 5.03                |
|                 |                               | 03/30/17    | 6.28                | 667                          | 8.7              | –                  | 1.84                    | 131      | –                   |
|                 |                               | 06/30/17    | 7.70                | 383                          | 25.5             | –                  | 0.23                    | -131     | 0.0                 |
|                 |                               | 04/09/18    | 8.47                | 425                          | 20.9             | –                  | 0.20                    | 33       | 0.3                 |
|                 |                               | 10/25/18    | 11.48               | 750                          | 19.2             | –                  | 0.63                    | 131      | –                   |
|                 |                               | 12/13/18    | 9.33                | 334                          | 19.6             | –                  | 0.20                    | -259     | –                   |
|                 |                               | 02/01/19    | 9.65                | 153                          | 20.2             | MAX <sup>(b)</sup> | 0.11                    | -205     | 0.0                 |
|                 |                               | 03/13/19    | 9.03                | 407                          | 18.6             | –                  | 0.24                    | 122      | –                   |
|                 |                               | 04/23/19    | 9.10                | 376                          | 18.6             | –                  | 0.21                    | -100     | 0.0                 |
|                 |                               | MW105       | Roy Street ROW      | 12/29/13                     | 7.49             | 1,165              | –                       | –        | 1.26                |
| 04/21/17        | 7.47                          |             |                     | 785                          | 17.1             | 105                | 2.34                    | -36.8    | –                   |
| 06/12/17        | 7.37                          |             |                     | 734                          | 17.1             | –                  | 0.70                    | -64.1    | –                   |
| 04/11/18        | 9.48 <sup>(a)</sup>           |             |                     | 469                          | 14.4             | –                  | 1.40                    | 42.0     | 0.75                |
| 01/23/19        | 7.66                          |             |                     | 570                          | 13.4             | –                  | 0.67                    | 107.1    | –                   |
| 04/23/19        | 7.82                          |             |                     | 580                          | 15.3             | –                  | 0.39                    | -57.7    | 0.50                |
| MW106           | SDOT Property S of Roy        | 04/14/17    | 9.47                | 726                          | 15.1             | 457                | 2.00                    | 1.7      | 0.0                 |
|                 |                               | 06/30/17    | 7.69                | 566                          | 19.7             | –                  | 0.40                    | #####    | 0.0                 |
|                 |                               | 05/04/18    | 7.91                | 482                          | 16.0             | –                  | 0.50                    | 100.1    | 0.0                 |
|                 |                               | 04/26/19    | 7.79                | 507                          | 15.6             | –                  | 0.53                    | -19.9    | 0.0                 |
| MW113           | 9th Ave N ROW                 | 12/19/13    | 10.0                | 267                          | –                | –                  | 0.26                    | 264      | 0.03                |
|                 |                               | 03/22/17    | 6.54                | 1,426                        | 15.2             | 2.1                | 1.10                    | -79.1    | 4.0                 |
|                 |                               | 06/16/17    | 6.52                | 1,145                        | 12.9             | –                  | 0.57                    | -5.7     | 1.5                 |
|                 |                               | 04/11/18    | 9.44 <sup>(a)</sup> | 946                          | 15.0             | –                  | 0.60                    | 62.5     | –                   |
|                 |                               | 02/07/19    | 6.64                | 1,219                        | 9.9              | 2.4                | 0.80                    | 75.9     | 2.5                 |
| MW122           | Alley Between 8th & 9th Ave N | 03/28/17    | 7.89                | 519                          | 13.5             | –                  | 0.64                    | 109      | –                   |
|                 |                               | 06/14/17    | 7.72                | 374                          | 16.7             | –                  | 0.46                    | -69      | –                   |
|                 |                               | 04/06/18    | 7.93                | 336                          | 14.9             | –                  | 0.60                    | 77       | –                   |

**Table 2**

**Groundwater Field Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

| Sample Location           | Property           | Sample Date               | pH                  | Specific Conductance (µS/cm) | Temperature (°C) | Turbidity (NTUs)   | Dissolved Oxygen (mg/L) | ORP (mv) | Ferrous Iron (mg/L) |
|---------------------------|--------------------|---------------------------|---------------------|------------------------------|------------------|--------------------|-------------------------|----------|---------------------|
| MW123                     | Westlake Ave N ROW | 04/01/17                  | 6.85                | 795                          | 13.1             | 14.5               | 1.10                    | -117     | -                   |
|                           |                    | 06/24/17                  | 6.89                | 737                          | 17.3             | -                  | 1.07                    | -89      | -                   |
|                           |                    | 04/14/18                  | 6.82                | 888                          | 14.5             | -                  | 0.50                    | 166      | -                   |
| MW124                     | Valley Street ROW  | 12/26/13                  | 7.84                | 285                          | -                | -                  | 1.43                    | 217      | 0.39                |
|                           |                    | 03/29/17                  | 7.96                | 306                          | 13.9             | -                  | 1.06                    | 117      | -                   |
|                           |                    | 06/15/17                  | 7.64                | 292                          | 16.5             | -                  | 0.50                    | 9        | -                   |
|                           |                    | 04/13/18                  | 7.57                | 281                          | 14.3             | -                  | 1.30                    | 327      | 0.5                 |
| MW128                     | Westlake Ave N ROW | 03/29/17                  | 6.62                | 800                          | 12.5             | 7.0                | 0.99                    | -88.0    | 1.80                |
|                           |                    | 06/21/17                  | 6.74                | 1588                         | 17.8             | -                  | 0.56                    | -78.8    | -                   |
|                           |                    | 04/09/18                  | 7.57                | 850                          | 17.9             | -                  | 0.40                    | -44.7    | -                   |
| MW-133                    | Property           | 09/25/17                  | 9.85 <sup>(a)</sup> | 372                          | 24.0             | -                  | 0.80                    | #####    | -                   |
|                           |                    | 04/25/18                  | 7.79                | 344                          | 21.7             | -                  | 0.30                    | -24.8    | 1.25                |
|                           |                    | 10/26/18                  | 8.16                | 403                          | 19.6             | -                  | 0.71                    | 125.0    | -                   |
|                           |                    | 12/12/18                  | 7.69                | 362                          | 17.3             | -                  | 0.90                    | -74.1    | -                   |
|                           |                    | 02/01/19                  | 7.76                | 362                          | 19.4             | -                  | 0.34                    | #####    | -                   |
|                           |                    | 03/13/19                  | 6.99                | 413                          | 12.1             | -                  | 0.91                    | 181      | -                   |
|                           |                    | Decommissioned March 2019 |                     |                              |                  |                    |                         |          |                     |
| MW-137                    | Property           | 09/25/17                  | 9.22 <sup>(a)</sup> | 342                          | 26.0             | 223 <sup>(b)</sup> | 0.60                    | #####    | -                   |
|                           |                    | 04/12/18                  | 9.29                | 386                          | 22.1             | -                  | 0.10                    | #####    | 0.75                |
|                           |                    | 10/26/18                  | 7.54                | 469                          | 24.2             | -                  | 8.74                    | 140.8    | -                   |
|                           |                    | 12/12/18                  | 7.27                | 398                          | 18.8             | -                  | 0.74                    | #####    | -                   |
|                           |                    | 02/01/19                  | 9.26                | 437                          | 18.8             | -                  | 0.21                    | #####    | -                   |
|                           |                    | 03/11/19                  | 7.39                | 493                          | 18.1             | -                  | 0.50                    | 180      | -                   |
| Decommissioned March 2019 |                    |                           |                     |                              |                  |                    |                         |          |                     |
| MW-138                    | Dexter Ave N ROW   | 09/21/17                  | 8.32 <sup>(a)</sup> | 390                          | 18.1             | MAX <sup>(b)</sup> | 0.52                    | #####    | -                   |
|                           |                    | 04/11/18                  | 7.89                | 350                          | 17.4             | -                  | 0.20                    | 33.5     | 0.0                 |
|                           |                    | 10/29/18                  | 7.43                | 346                          | 16.5             | -                  | 0.38                    | 121.9    | -                   |
|                           |                    | 12/17/18                  | 7.82                | 424                          | 15.7             | -                  | 0.49                    | #####    | -                   |
|                           |                    | 01/03/19                  | 7.33                | 358                          | 16.2             | -                  | 2.41                    | 49.8     | 0.0                 |
|                           |                    | 03/14/19                  | 6.76                | 426                          | 14.2             | -                  | 0.44                    | 149.2    | -                   |
|                           |                    | 04/22/19                  | 7.47                | 359                          | 17.1             | -                  | 0.34                    | -64.7    | 3.5                 |
| MW-140                    | Roy St ROW         | 09/22/17                  | 7.99 <sup>(a)</sup> | 560                          | 21.6             | 200 <sup>(b)</sup> | 0.73                    | #####    | -                   |
|                           |                    | 04/12/18                  | 7.74                | 421                          | 14.0             | -                  | 0.30                    | 49.6     | 0.3                 |
| Decommissioned            |                    |                           |                     |                              |                  |                    |                         |          |                     |
| MW-141                    | Property           | 09/22/17                  | 9.90 <sup>(a)</sup> | 398                          | 24.0             | MAX <sup>(b)</sup> | 0.40                    | #####    | -                   |
|                           |                    | 04/12/18                  | 7.39                | 337                          | 20.9             | -                  | 0.20                    | 37.9     | -                   |
|                           |                    | 10/25/18                  | 7.25                | 376                          | 19.5             | -                  | 0.41                    | 149.5    | -                   |
|                           |                    | 12/12/18                  | 7.20                | 339                          | 17.0             | -                  | 0.92                    | #####    | -                   |
|                           |                    | 01/30/19                  | 7.35                | 411                          | 20.5             | -                  | 0.28                    | #####    | -                   |
|                           |                    | 03/11/19                  | 7.29                | 427                          | 16.4             | -                  | 0.55                    | 185      | -                   |
| MW-153                    | Roy St ROW         | 05/01/18                  | 8.91                | 369                          | 16.5             | -                  | 0.40                    | 87.2     | -                   |
|                           |                    | 01/22/19                  | 8.91                | 391                          | 15.2             | -                  | 0.67                    | 93.5     | 0.0                 |
|                           |                    | 04/24/19                  | 8.62                | 327                          | 18.0             | -                  | 0.45                    | 92.6     | 0.0                 |

Table 2

**Groundwater Field Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

| Sample Location                         | Property      | Sample Date               | pH   | Specific Conductance (µS/cm) | Temperature (°C) | Turbidity (NTUs)   | Dissolved Oxygen (mg/L) | ORP (mv) | Ferrous Iron (mg/L) |
|---|---------------|---------------------------|------|------------------------------|------------------|--------------------|-------------------------|----------|---------------------|
| MW-158                                  | 8th Ave N ROW | 04/30/18                  | 8.20 | 1,306                        | 14.8             | –                  | 0.40                    | 102.3    | 0.5                 |
|   |               | 01/24/19                  | 7.91 | 707                          | 13.8             | MAX <sup>(b)</sup> | 0.53                    | #####    | 0.0                 |
|   |               | 04/25/19                  | 7.58 | 775                          | 17.7             | –                  | 0.48                    | 37.5     | NR                  |
| MW-160                                  | 8th Ave N ROW | 05/21/18                  | 7.96 | 323                          | 23.2             | –                  | 0.42                    | #####    | 0.0                 |
|   |               | 01/25/19                  | 7.57 | 404                          | 18.4             | MAX <sup>(b)</sup> | 0.40                    | 94.8     | 0.5                 |
|   |               | 05/01/19                  | 7.71 | 359                          | 24.0             | –                  | 0.32                    | #####    | 0.0                 |
| MW-161                                  | 8th Ave N ROW | 05/21/18                  | 7.59 | 544                          | 21.6             | –                  | 0.48                    | #####    | 0.0                 |
|   |               | 01/25/19                  | 7.49 | 661                          | 17.9             | MAX <sup>(b)</sup> | 0.61                    | 99.2     | 0.0                 |
|   |               | 04/29/19                  | 7.27 | 662                          | 18.4             | –                  | 0.31                    | 24.2     | 0.0                 |
| MW-162                                  | Property      | 02/05/19                  | 7.68 | 541                          | 12.7             | 7.5                | 0.29                    | 109.6    | –                   |
|   |               | 03/12/19                  | 7.52 | 402                          | 17.8             | –                  | 0.31                    | -81.9    | –                   |
|   |               | Decommissioned March 2019 |      |                              |                  |                    |                         |          |                     |
| MW-163                                  | Property      | 02/05/19                  | 7.67 | 394                          | 15.5             | 4.5                | 3.73                    | -44.7    | –                   |
|   |               | 03/12/19                  | 7.45 | 392                          | 15.6             | –                  | 0.59                    | 145.3    | –                   |
|   |               | Decommissioned March 2019 |      |                              |                  |                    |                         |          |                     |
| MW-164                                  | Property      | 02/05/19                  | 7.63 | 462                          | 14.6             | 10.5               | 0.56                    | -35.4    | –                   |
|   |               | 03/12/19                  | 7.30 | 686                          | 15.4             | –                  | 0.23                    | 148.7    | –                   |
|   |               | Decommissioned March 2019 |      |                              |                  |                    |                         |          |                     |
| <b>Treatment Zone A Injection Wells</b> |               |                           |      |                              |                  |                    |                         |          |                     |
| IW-4A                                   | Property      | 03/28/18                  | 6.49 | 540                          | 17.1             | –                  | 0.50                    | 65       | –                   |
| IW-7A                                   | Property      | 04/02/18                  | 7.07 | 1,096                        | 15.7             | –                  | 0.60                    | 122.7    | –                   |
| IW-9A                                   | Property      | 03/29/18                  | 6.58 | 528                          | 16.8             | –                  | 1.40                    | 88       | –                   |
| IW-18A                                  | Property      | 03/30/18                  | 6.47 | 928                          | 17.7             | –                  | 0.50                    | 117      | –                   |
|   |               | 12/13/18                  | 6.26 | 2199                         | 17.0             | –                  | 1.11                    | –        | –                   |
| IW-22A                                  | Property      | 04/02/18                  | 6.96 | 1,005                        | 18.6             | –                  | 0.60                    | 92.5     | –                   |
| IW-37A                                  | Property      | 03/28/18                  | 8.17 | 319                          | 15.9             | –                  | 0.70                    | 10       | –                   |
| IW-38A                                  | Property      | 12/14/18                  | 6.60 | 1945                         | 15.8             | –                  | 0.26                    | 143.7    | –                   |
| IW-41A                                  | Property      | 04/10/18                  | 8.12 | 364                          | 17.4             | –                  | 0.30                    | 58.7     | –                   |
| IW-42A                                  | Property      | 04/10/18                  | 7.53 | 590                          | 14.2             | –                  | 0.40                    | 73       | –                   |
| IW-45A                                  | Property      | 04/04/18                  | 7.18 | 573                          | 13.3             | –                  | 0.70                    | 68.7     | –                   |
| IW-46A                                  | Property      | 03/28/18                  | 6.78 | 1564                         | 14.7             | –                  | 0.50                    | 89       | –                   |
| IW-48A                                  | Property      | 04/02/18                  | 6.88 | 2,007                        | 15.4             | –                  | 0.70                    | 72.6     | –                   |
| <b>Treatment Zone B Injection Wells</b> |               |                           |      |                              |                  |                    |                         |          |                     |
| IW-3B                                   | Property      | 03/28/18                  | 6.65 | 669                          | 16.0             | –                  | 0.70                    | 66       | –                   |
| IW-6B                                   | Property      | 04/02/18                  | 6.69 | 884                          | 15.9             | –                  | 1.10                    | 110.0    | –                   |
| IW-8B                                   | Property      | 03/30/18                  | 7.66 | 471                          | 13.6             | –                  | 0.80                    | 111      | –                   |
| IW-17B                                  | Property      | 03/30/18                  | 6.80 | 142                          | 16.5             | –                  | 0.70                    | -6.3     | –                   |
|   |               | 12/13/18                  | 6.43 | 1,640                        | 17.1             | –                  | 1.61                    | 47.9     | –                   |
| IW-21B                                  | Property      | 04/02/18                  | 7.01 | 1709                         | 17.9             | –                  | 0.50                    | 74       | –                   |
| IW-22B                                  | Property      | 04/25/18                  | 7.09 | 693                          | 19.4             | –                  | 0.60                    | 98.1     | –                   |

Table 2

**Groundwater Field Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

| Sample Location   | Property | Sample Date | pH                  | Specific Conductance (µS/cm) | Temperature (°C) | Turbidity (NTUs) | Dissolved Oxygen (mg/L) | ORP (mv) | Ferrous Iron (mg/L) |
|---|----------|-------------|---------------------|------------------------------|------------------|------------------|-------------------------|----------|---------------------|
| IW-24B  | Property | 03/30/18    | 6.92                | 1279                         | 17.8             | –                | 0.70                    | 72       | –                   |
| IW-28B  | Property | 04/09/18    | 6.85 <sup>(a)</sup> | 1,028                        | 20.4             | –                | 0.40                    | -54.5    | –                   |
|   |          | 12/14/18    | 6.55                | 2,448                        | 18.1             | –                | 0.55                    | 128.9    | –                   |
| IW-33B  | Property | 04/02/18    | 7.03                | 1425                         | 16.7             | –                | 0.70                    | 87       | –                   |
| IW-37B  | Property | 03/29/18    | 7.31                | 1,156                        | 19.6             | –                | 0.60                    | 76.2     | –                   |
| IW-45B  | Property | 03/28/18    | 7.40                | 949                          | 18.0             | –                | 0.70                    | 64       | –                   |
| IW-47B  | Property | 04/10/18    | 7.52                | 1,080                        | 20.6             | –                | 0.30                    | 70.3     | –                   |
| IW-49B  | Property | 03/28/18    | 6.98                | 1551                         | 15.6             | –                | 0.60                    | 88       | –                   |
| IW-51B  | Property | 03/28/18    | 7.69                | 1,100                        | 15.7             | –                | 0.30                    | #####    | –                   |
| <b>Treatment Zone C Injection Wells</b>   |          |             |                     |                              |                  |                  |                         |          |                     |
| IW-1C   | Property | 03/29/18    | 7.71                | 578                          | 14.5             | –                | 0.80                    | 104      | –                   |
| IW-4C   | Property | 04/26/18    | 7.91                | 725                          | 17.8             | –                | 0.70                    | 109.1    | –                   |
|   |          | 12/14/18    | 6.37                | 3,590                        | 18.5             | –                | 34.50                   | 185.1    | –                   |
| IW-8C   | Property | 04/04/18    | 9.13                | 1062                         | 15.8             | –                | 2.10                    | 79       | –                   |
| IW-9C   | Property | 04/02/18    | 7.36                | 967                          | 18.5             | –                | 0.80                    | 85.3     | –                   |
| IW-13C  | Property | 04/25/18    | 7.68                | 754                          | 20.7             | –                | 0.70                    | 91       | –                   |
| IW-15C  | Property | 03/30/18    | 7.32                | 1,343                        | 19.8             | –                | 0.30                    | 1.9      | –                   |
|   |          | 12/13/18    | 6.59                | 2,448                        | 14.7             | –                | 22.06                   | 138.3    | –                   |
| IW-19C  | Property | 03/29/18    | 7.59                | 1122                         | 19.3             | –                | 0.80                    | 98       | –                   |
| IW-20C  | Property | 03/30/18    | 7.49                | 751                          | 19.7             | –                | 0.40                    | 50.5     | –                   |
| <b>Treatment Zone D Injection Wells</b>   |          |             |                     |                              |                  |                  |                         |          |                     |
| IW-1D   | Property | 04/03/18    | 8.96                | 591                          | 20.4             | –                | 0.40                    | -228     | –                   |
|   |          | 12/13/18    | 6.72                | 2188                         | 13.1             | –                | 0.28                    | -34      | –                   |
| IW-3D   | Property | 04/03/18    | 7.58                | 761                          | 21.8             | –                | 0.50                    | 72.3     | –                   |
| IW-4D   | Property | 03/29/18    | 8.42                | 407                          | 13.8             | –                | 0.90                    | 90       | –                   |
| IW-6D   | Property | 04/03/18    | 7.73                | 366                          | 18.1             | –                | 0.40                    | 14.3     | –                   |
|   |          | 12/13/18    | 6.31                | 2,952                        | 15.1             | –                | 34.30                   | 247.3    | –                   |
| IW-8D   | Property | 04/04/18    | 7.33                | 722                          | 20.5             | –                | 0.50                    | 81       | –                   |
| IW-9D   | Property | 04/04/18    | 7.63                | 505                          | 18.5             | –                | 5.50                    | 85.7     | –                   |
| IW-11D  | Property | 05/01/18    | 7.96                | 757                          | 20.9             | –                | 0.60                    | 55.9     | –                   |
| Notes:  |          |             |                     |                              |                  |                  |                         |          |                     |
| 1. – = not measured   |          |             |                     |                              |                  |                  |                         |          |                     |
| 2. <sup>(a)</sup> = pH meter not giving stable/reliable reading   |          |             |                     |                              |                  |                  |                         |          |                     |
| 3. <sup>(b)</sup> = Turbidity reading collected and read with a turbidimeter after water sample collection. |          |             |                     |                              |                  |                  |                         |          |                     |
| 4. * =  |          |             |                     |                              |                  |                  |                         |          |                     |
| 5. MAX = Turbidity greater than instrument upper detection limit.   |          |             |                     |                              |                  |                  |                         |          |                     |

Table 3

**Groundwater Analytical Data for Shallow Zone Wells  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

| Sample Location           | Well Screen Elevation (ft) | Sample Area | Sample Date               | Sampled By | Sampling Method | Analytical Results (micrograms per liter) |     |       |          |         |              |               |          |         |         |         |         |         |       |
|---------------------------|----------------------------|-------------|---------------------------|------------|-----------------|---|-----|-------|----------|---------|--------------|---------------|----------|---------|---------|---------|---------|---------|-------|
|                           |                            |             |                           |            |                 | GRO                                       | DRO | ORO   | Benzene  | Toluene | Ethylbenzene | Total Xylenes | PCE      | TCE     | cDCE    | tDCE    | VC      |         |       |
| Screening Level           |                            |             |                           |            |                 | 800                                       | 500 | 500   | 0.5      | 72      | 29           | 10,000        | 2.4      | 1       | 16      | 100     | 0.2     |         |       |
| <b>On Property</b>        |                            |             |                           |            |                 |   |     |       |          |         |              |               |          |         |         |         |         |         |       |
| F5                        | -                          | Property    | 07/19/13                  | SES        | Peristaltic     | -   | -   | -     | -        | -       | -            | -             | -        | 120,000 | 1,100   | 700     | 5.20    | 4.2     |       |
|                           |                            |             | 10/24/13                  | SES        | Peristaltic     | -   | -   | -     | -        | -       | -            | -             | -        | -       | 21,000  | 1,200   | 1,000   | 1,000   | 200 U |
|                           |                            |             | 03/28/17                  | PES        | Peristaltic     | 234                                       | -   | -     | 0.515    | 0.727 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.241 J | 516     | 4.31    | 90.6    |         |       |
|                           |                            |             | 06/22/17                  | PES        | Peristaltic     | 31.6 U                                    | -   | -     | 0.374 J  | 0.708   | 0.158 U      | 0.316 U       | 0.199 U  | 0.485   | 10.4    | 0.485 J | 63.9    |         |       |
|                           |                            |             | Decommissioned March 2019 |            |                 |   |     |       |          |         |              |               |          |         |         |         |         |         |       |
| F9                        | -                          | Property    | 07/19/13                  | SES        | Peristaltic     | -   | -   | -     | -        | -       | -            | -             | -        | 140,000 | 3,400   | 1,100   | 8.6     | 78      |       |
|                           |                            |             | 06/16/15                  | SES        | Peristaltic     | -   | -   | -     | -        | -       | -            | -             | -        | -       | 3.7     | 1.8     | 680     | 12      | 74    |
|                           |                            |             | 10/19/15                  | SES        | Peristaltic     | -   | -   | -     | -        | -       | -            | -             | -        | -       | 15.0    | 6.6     | 840     | 13      | 75    |
|                           |                            |             | 02/01/16                  | SES        | Peristaltic     | -   | -   | -     | -        | -       | -            | -             | -        | -       | 2.9     | 1 U     | 1.3     | 1 U     | 20    |
|                           |                            |             | 03/27/17                  | PES        | Peristaltic     | 31.6 U                                    | -   | -     | 0.529    | 2.04    | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U | 0.158 J | 0.539   | 0.118 U |         |       |
|                           |                            |             | 06/22/17                  | PES        | Peristaltic     | 31.6 U                                    | -   | -     | 0.471 J  | 1.70    | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U | 6.10    | 0.485   | 3.57    |         |       |
| Decommissioned March 2019 |                            |             |                           |            |                 |   |     |       |          |         |              |               |          |         |         |         |         |         |       |
| F13                       | -                          | Property    | 07/19/13                  | SES        | Peristaltic     | -   | -   | -     | -        | -       | -            | -             | -        | 2,900   | 280     | 370     | 100 U   | 49      |       |
|                           |                            |             | 10/24/13                  | SES        | Peristaltic     | -   | -   | -     | -        | -       | -            | -             | -        | -       | 7,300   | 3,100   | 490     | 50 U    | 10 U  |
|                           |                            |             | 11/18/13                  | SES        | Peristaltic     | -   | -   | -     | -        | -       | -            | -             | -        | -       | 67,000  | 6,600   | 3,200   | 85      | 48    |
|                           |                            |             | 12/12/13                  | SES        | Peristaltic     | -   | -   | -     | -        | -       | -            | -             | -        | -       | 1,100   | 340     | 670     | 10 U    | 20    |
|                           |                            |             | 03/07/14                  | SES        | Peristaltic     | -   | -   | -     | -        | -       | -            | -             | -        | -       | 84      | 11      | 10      | 1 U     | 0.36  |
|                           |                            |             | 06/16/15                  | SES        | Peristaltic     | -   | -   | -     | -        | -       | -            | -             | -        | -       | 8.4     | 1 U     | 1.8     | 1 U     | 0.31  |
|                           |                            |             | 10/19/15                  | SES        | Peristaltic     | -   | -   | -     | -        | -       | -            | -             | -        | -       | 1 U     | 2.0     | 210     | 2.3     | 4.1   |
|                           |                            |             | 02/02/16                  | SES        | Peristaltic     | -   | -   | -     | -        | -       | -            | -             | -        | -       | 3.4     | 1 U     | 1 U     | 1 U     | 0.97  |
|                           |                            |             | 03/27/17                  | PES        | Peristaltic     | 31.6 U                                    | -   | -     | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U | 0.218 J | 0.152 U | 0.936   |         |       |
|                           |                            |             | 06/22/17                  | PES        | Peristaltic     | 31.6 U                                    | -   | -     | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U | 0.194 J | 0.152 U | 1.32    |         |       |
|                           |                            |             | 04/05/18                  | PES        | Peristaltic     | 31.6 U                                    | -   | -     | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U | 20.3    | 0.346 J | 0.375 J | 0.152 U | 0.843 |
| Decommissioned March 2019 |                            |             |                           |            |                 |   |     |       |          |         |              |               |          |         |         |         |         |         |       |
| G12                       | -                          | Property    | 07/19/13                  | SES        | Peristaltic     | -   | -   | -     | -        | -       | -            | -             | -        | 64,000  | 3,100   | 9,200   | 88      | 130     |       |
|                           |                            |             | 10/24/13                  | SES        | Peristaltic     | -   | -   | -     | -        | -       | -            | -             | -        | -       | 1,700   | 150     | 100 U   | 100 U   | 20 U  |
|                           |                            |             | 11/18/13                  | SES        | Peristaltic     | -   | -   | -     | -        | -       | -            | -             | -        | -       | 760     | 84      | 42      | 10 U    | 2 U   |
|                           |                            |             | 03/27/17                  | PES        | Peristaltic     | -   | -   | -     | 0.243 J  | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.233 J | 95.9    | 1.97    | 28.4    |         |       |
|                           |                            |             | 06/30/17                  | PES        | Peristaltic     | -   | -   | -     | 0.282 J  | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.323 J | 115     | 2.94    | 31.5    |         |       |
| Decommissioned March 2019 |                            |             |                           |            |                 |   |     |       |          |         |              |               |          |         |         |         |         |         |       |
| G-MW2                     | 31 to 21                   | Property    | 07/24/01                  | GeoE       | Peristaltic     | -   | -   | -     | 0.375    | 48.3 E  | 2.01         | 12.88         | 176,000  | 237 g   | 129 g   | 1.02    | 0.457   |         |       |
|                           |                            |             | 01/29/09                  | DOF        | Peristaltic     | 39,600 qp                                 | -   | -     | 20.0 U   | 20.0 U  | 20.0 U       | 48.9          | 59,000 f | 210     | 373     | 1.33    | 0.200 U |         |       |
|                           |                            |             | 06/02/11                  | SES        | Peristaltic     | 59,000 xy                                 | 200 | 250 U | 350 U    | 1,000 U | 1,000 U      | 3,000 U       | 150,000  | 1000 U  | 1000 U  | 1000 U  | 200 U   |         |       |
|                           |                            |             | 09/06/12                  | SES        | Peristaltic     | -   | -   | -     | 0.35 U   | 12      | 1.1          | 4.7           | 150,000  | 320     | 260     | 1.4     | 0.2 U   |         |       |
| Decommissioned            |                            |             |                           |            |                 |   |     |       |          |         |              |               |          |         |         |         |         |         |       |
| J5                        | -                          | Property    | 07/19/13                  | SES        | Peristaltic     | -   | -   | -     | -        | -       | -            | -             | -        | 46,000  | 660     | 100 U   | 100 U   | 20 U    |       |
|                           |                            |             | 10/24/13                  | SES        | Peristaltic     | -   | -   | -     | -        | -       | -            | -             | -        | -       | 48,000  | 13,000  | 1,400   | 100 U   | 20 U  |
|                           |                            |             | 06/16/15                  | SES        | Peristaltic     | -   | -   | -     | -        | -       | -            | -             | -        | -       | 1,100   | 340     | 250     | 51      | 1.0   |
|                           |                            |             | 10/19/15                  | SES        | Peristaltic     | -   | -   | -     | -        | -       | -            | -             | -        | -       | 1,400   | 470     | 890     | 51      | 1.3   |
|                           |                            |             | 02/02/16                  | SES        | Peristaltic     | -   | -   | -     | -        | -       | -            | -             | -        | -       | 1,500   | 110     | 280     | 14      | 0.31  |
|                           |                            |             | 03/21/17                  | PES        | Peristaltic     | -   | -   | -     | 0.580    | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.285   | 78.5    | 253     | 1.73    | 29.6    |       |
|                           |                            |             | 06/26/17                  | PES        | Peristaltic     | -   | -   | -     | 0.252 J  | 0.506   | 0.158 U      | 0.316 U       | 0.199 U  | 36.1    | 37.1    | 366     | 1.94    | 77.7    |       |
|                           |                            |             | 04/05/18                  | PES        | Peristaltic     | 207                                       | -   | -     | 0.638    | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 267     | 70.5    | 222     | 1.00    | 17.6    |       |
|                           |                            |             | Decommissioned March 2019 |            |                 |   |     |       |          |         |              |               |          |         |         |         |         |         |       |

Table 3

**Groundwater Analytical Data for Shallow Zone Wells  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

| Sample Location  | Well Screen Elevation (ft) | Sample Area | Sample Date               | Sampled By | Sampling Method | Analytical Results (micrograms per liter) |            |            |            |           |              |               |            |          |           |            |            |       |
|--|----------------------------|-------------|---------------------------|------------|-----------------|---|------------|------------|------------|-----------|--------------|---------------|------------|----------|-----------|------------|------------|-------|
|  |                            |             |                           |            |                 | GRO                                       | DRO        | ORO        | Benzene    | Toluene   | Ethylbenzene | Total Xylenes | PCE        | TCE      | cDCE      | tDCE       | VC         |       |
| <b>Screening Level</b>                                     |                            |             |                           |            |                 | <b>800</b>                                | <b>500</b> | <b>500</b> | <b>0.5</b> | <b>72</b> | <b>29</b>    | <b>10,000</b> | <b>2.4</b> | <b>1</b> | <b>16</b> | <b>100</b> | <b>0.2</b> |       |
| J15<br><br><br><br><br><br><br><br><br><br><br>(duplicate) | -                          | Property    | 07/19/13                  | SES        | Peristaltic     | -   | -          | -          | -          | -         | -            | -             | 4,100      | 220      | 580       | 6.8        | 20         |       |
|  |                            |             | 10/24/13                  | SES        | Peristaltic     | -   | -          | -          | -          | -         | -            | -             | -          | 10,000   | 1,100     | 680        | 100 U      | 20 U  |
|  |                            | Property    | 03/07/14                  | SES        | Peristaltic     | -   | -          | -          | -          | -         | -            | -             | -          | 2,200    | 170       | 120        | 50 U       | 10 U  |
|  |                            |             | 06/16/15                  | SES        | Peristaltic     | -   | -          | -          | -          | -         | -            | -             | -          | 9.0      | 12        | 310        | 8.8        | 3.1   |
|  |                            |             | 10/19/15                  | SES        | Peristaltic     | -   | -          | -          | -          | -         | -            | -             | -          | 3.6      | 1 U       | 110        | 3.0        | 1.7   |
|  |                            |             | 02/02/16                  | SES        | Peristaltic     | -   | -          | -          | -          | -         | -            | -             | -          | 2.4      | 1 U       | 35         | 1 U        | 0.39  |
|  |                            |             | 03/27/17                  | PES        | Peristaltic     | -   | -          | -          | 0.188 J    | 0.495 J   | 0.158 U      | 0.316 U       | 0.199 U    | 0.153 U  | 43.3      | 1.18       | 6.99       |       |
|  |                            |             | 06/26/17                  | PES        | Peristaltic     | -   | -          | -          | 0.173 J    | 0.459 J   | 0.158 U      | 0.316 U       | 0.199 U    | 0.153 U  | 39.8      | 1.06       | 6.30       |       |
|  |                            |             | 06/26/17                  | PES        | Peristaltic     | -   | -          | -          | 0.173 J    | 0.551     | 0.158 U      | 0.316 U       | 0.199 U    | 0.153 U  | 39.3      | 1.03       | 6.73       |       |
|  |                            |             | 04/05/18                  | PES        | Peristaltic     | 41.2 J                                    | -          | -          | 0.0896 U   | 0.412 U   | 0.158 U      | 0.316 U       | 12.8       | 0.358 J  | 26.3      | 0.709      | 6.07       |       |
| Decommissioned March 2019                                  |                            |             |                           |            |                 |   |            |            |            |           |              |               |            |          |           |            |            |       |
| K8   | -                          | Property    | 07/19/13                  | SES        | Peristaltic     | -   | -          | -          | -          | -         | -            | -             | 8,700      | 330      | 1,400     | 5.6        | 6.3        |       |
|  |                            |             | 06/17/15                  | SES        | Peristaltic     | -   | -          | -          | -          | -         | -            | -             | -          | 63       | 16        | 500        | 67         | 2 U   |
|  |                            |             | 10/19/15                  | SES        | Peristaltic     | -   | -          | -          | -          | -         | -            | -             | -          | 360      | 82        | 43         | 3.2        | 0.44  |
|  |                            |             | 02/01/16                  | SES        | Peristaltic     | -   | -          | -          | -          | -         | -            | -             | -          | 250      | 44        | 82         | 1.8        | 0.31  |
|  |                            |             | 03/21/17                  | PES        | Peristaltic     | -   | -          | -          | 0.239 J    | 0.412 U   | 0.158 U      | 0.316 U       | 82.5       | 22.0     | 123       | 0.680      | 0.461 J    |       |
|  |                            |             | 06/26/17                  | PES        | Peristaltic     | -   | -          | -          | 0.246 J    | 0.412 U   | 0.158 U      | 0.316 U       | 67.9       | 28.7     | 140       | 0.750      | 0.456 J    |       |
|  |                            |             | 04/05/18                  | PES        | Peristaltic     | 156                                       | -          | -          | 0.251 J    | 0.412 U   | 0.158 U      | 0.316 U       | 229        | 26.3     | 104       | 0.750      | 1.45       |       |
| Decommissioned March 2019                                  |                            |             |                           |            |                 |   |            |            |            |           |              |               |            |          |           |            |            |       |
| M15<br><br><br><br><br><br><br><br><br><br><br>(duplicate) | -                          | Property    | 07/19/13                  | SES        | Peristaltic     | -   | -          | -          | -          | -         | -            | -             | 3,200      | 110      | 180       | 1.7        | 0.22       |       |
|  |                            |             | 10/24/13                  | SES        | Peristaltic     | -   | -          | -          | -          | -         | -            | -             | -          | 56,000   | 1,100     | 770        | 50 U       | 10 U  |
|  |                            |             | 03/07/14                  | SES        | Peristaltic     | -   | -          | -          | -          | -         | -            | -             | -          | 2,100    | 190       | 290        | 2.9        | 2.60  |
|  |                            |             | 06/16/15                  | SES        | Peristaltic     | -   | -          | -          | -          | -         | -            | -             | -          | 58       | 44        | 76         | 2.7        | 1.1   |
|  |                            |             | 10/19/15                  | SES        | Peristaltic     | -   | -          | -          | -          | -         | -            | -             | -          | 48       | 29        | 110        | 2.3        | 0.74  |
|  |                            |             | 02/02/16                  | SES        | Peristaltic     | -   | -          | -          | -          | -         | -            | -             | -          | 11       | 10        | 84         | 1.8        | 0.39  |
|  |                            |             | 03/27/17                  | PES        | Peristaltic     | -   | -          | -          | 0.0896 U   | 0.412 U   | 0.158 U      | 0.316 U       | 0.199 U    | 0.733    | 32.7      | 0.561      | 13.2       |       |
|  |                            |             | 03/27/17                  | PES        | Peristaltic     | -   | -          | -          | 0.0896 U   | 0.412 U   | 0.158 U      | 0.316 U       | 0.199 U    | 0.670    | 31.7      | 0.513      | 12.0       |       |
|  |                            |             | 06/26/17                  | PES        | Peristaltic     | -   | -          | -          | 0.0896 U   | 0.412 U   | 0.158 U      | 0.316 U       | 0.233 J    | 1.80     | 25.8      | 0.523      | 15.0       |       |
|  |                            |             | 04/05/18                  | PES        | Peristaltic     | 31.6 U                                    | -          | -          | 0.0896 U   | 0.412 U   | 0.158 U      | 0.316 U       | 0.199 U    | 0.563    | 8.89      | 0.300 J    | 11.1       |       |
| Decommissioned March 2019                                  |                            |             |                           |            |                 |   |            |            |            |           |              |               |            |          |           |            |            |       |
| N7   | -                          | Property    | 07/19/13                  | SES        | Peristaltic     | -   | -          | -          | -          | -         | -            | -             | 640        | 50       | 18        | 1 U        | 0.2 U      |       |
|  |                            |             | 10/19/15                  | SES        | Peristaltic     | -   | -          | -          | -          | -         | -            | -             | -          | 2,900    | 99        | 9.9        | 1 U        | 0.2 U |
|  |                            |             | 02/02/16                  | SES        | Peristaltic     | -   | -          | -          | -          | -         | -            | -             | -          | 230      | 79        | 1,700      | 2.9        | 0.92  |
|  |                            |             | 03/30/17                  | PES        | Peristaltic     | -   | -          | -          | 0.178 J    | 0.412 U   | 0.158 U      | 0.316 U       | 280        | 50.4     | 125       | 0.396 J    | 0.310 J    |       |
|  |                            |             | 06/27/17                  | PES        | Peristaltic     | -   | -          | -          | 0.0896 U   | 0.412 U   | 0.158 U      | 0.316 U       | 205        | 85.1     | 153       | 0.955      | 0.386 J    |       |
|  |                            |             | Decommissioned March 2019 |            |                 |   |            |            |            |           |              |               |            |          |           |            |            |       |
| R-MW1  | 33.78 to 23.78             | Property    | 10/24/92                  | Roux       | Unknown         | 57  | 1,345      | 6,000      | 1          | 1         | 0.5 U        | 0.5 U         | 5 U        | 5 U      | -         | 5 U        | 100        |       |
|  |                            |             | 10/24/92                  | DOF        | Unknown         | 53  | 26,000     | 12,000     | 0.61       | 0.83      | 0.50 U       | 1.0 U         | 4.2        | 0.82     | 12.0 c    | -          | 170        |       |
|  |                            |             | 10/24/92                  | Roux       | Unknown         | 54  | 290        | 5,000      | 0.58       | 1         | 0.5 U        | 0.5 U         | 2.3        | 2 U      | 14        | NA         | 140        |       |
|  |                            |             | 01/29/09                  | DOF        | Peristaltic     | 50.0 U                                    | -          | -          | 0.500 U    | 0.500 U   | 0.500 U      | 1.00 U        | 17.1       | 4.26     | 1.60      | 0.200 U    | 0.630      |       |
|  |                            |             | 06/02/11                  | SES        | Peristaltic     | 100 U                                     | 1,000 x    | 740        | 0.35 U     | 1 U       | 1 U          | 3 U           | 7.9        | 2.7      | 1.9       | 1 U        | 0.68       |       |
|  |                            |             | 09/05/12                  | SES        | Peristaltic     | -   | -          | -          | 0.35 U     | 1 U       | 1 U          | 3 U           | 16         | 3.6      | 2.1       | 1 U        | 2.20       |       |
|  |                            |             | Decommissioned            |            |                 |   |            |            |            |           |              |               |            |          |           |            |            |       |



Table 3

**Groundwater Analytical Data for Shallow Zone Wells  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

| Sample Location   | Well Screen Elevation (ft) | Sample Area         | Sample Date               | Sampled By | Sampling Method | Analytical Results (micrograms per liter) |            |            |            |           |              |               |            |          |           |            |            |         |
|---|----------------------------|---------------------|---------------------------|------------|-----------------|---|------------|------------|------------|-----------|--------------|---------------|------------|----------|-----------|------------|------------|---------|
|   |                            |                     |                           |            |                 | GRO                                       | DRO        | ORO        | Benzene    | Toluene   | Ethylbenzene | Total Xylenes | PCE        | TCE      | cDCE      | tDCE       | VC         |         |
| <b>Screening Level</b>                                  |                            |                     |                           |            |                 | <b>800</b>                                | <b>500</b> | <b>500</b> | <b>0.5</b> | <b>72</b> | <b>29</b>    | <b>10,000</b> | <b>2.4</b> | <b>1</b> | <b>16</b> | <b>100</b> | <b>0.2</b> |         |
| R-MW2   | 36.74 to 26.74             | Property            | 10/24/92                  | Roux       | Unknown         | 4,200                                     | 34         | 2,000      | 684        | 17        | 301          | 403           | 5 U        | 5 U      | -         | 5 U        | 5 U        |         |
|   |                            |                     | 10/24/92                  | DOF        | Unknown         | 4,000                                     | 16,000     | 25,000     | 310        | 0.50      | 140          | 180           | -          | -        | -         | -          | -          | -       |
|   |                            |                     | 01/29/09                  | DOF        | Peristaltic     | 657                                       | -          | -          | 0.500 U    | 0.557     | 0.513        | 2.08          | 5.05       | 0.200 U  | 0.200 U   | 0.200 U    | 0.200 U    | 0.200 U |
|   |                            |                     | 06/02/11                  | SES        | Peristaltic     | 1,700                                     | 3,100      | 290 x      | 19         | 1 U       | 1 U          | 3 U           | 1 U        | 1 U      | 1 U       | 1 U        | 1 U        | 0.2 U   |
|   |                            |                     | 09/04/12                  | SES        | Peristaltic     | -   | -          | -          | 0.35 U     | 1 U       | 1 U          | 3 U           | 1 U        | 1 U      | 1 U       | 1 U        | 1 U        | 0.2 U   |
|   |                            |                     | 03/21/17                  | PES        | Peristaltic     | -   | -          | -          | 0.272 J    | 0.412 U   | 0.158 U      | 0.316 U       | 0.199 U    | 0.153 U  | 0.341 J   | 0.152 U    | 0.522      |         |
|   |                            |                     | 06/15/17                  | PES        | Peristaltic     | -   | -          | -          | 0.694      | 0.412 U   | 0.158 U      | 0.316 U       | 0.199 U    | 0.153 U  | 0.682     | 0.152 U    | 0.609      |         |
|   |                            |                     | 04/02/18                  | PES        | Peristaltic     | 38.0 U                                    | -          | -          | 0.568      | 0.412 U   | 0.158 U      | 0.316 U       | 0.866      | 0.620    | 2.48      | 0.152 U    | 1.33       |         |
|   |                            |                     | Decommissioned March 2019 |            |                 |   |            |            |            |           |              |               |            |          |           |            |            |         |
| R-MW3   | 34.74 to 24.74             | Property            | 10/24/92                  | Roux       | Unknown         | 87  | 3,015      | 1,200      | 0.5 U      | 0.5 U     | 0.5 U        | 0.5 U         | 5 U        | 5 U      | -         | 5 U        | 5 U        |         |
|   |                            |                     | 10/24/92                  | DOF        | Unknown         | 50 U                                      | -          | -          | 0.50 U     | 0.50 U    | 0.50 U       | 1.0 U         | -          | -        | -         | -          | -          |         |
|   |                            |                     | 01/29/09                  | DOF        | Peristaltic     | 50.0 U                                    | -          | -          | 0.500 U    | 0.500 U   | 0.500 U      | 1.00 U        | 4.26       | 0.200 U  | 0.200 U   | 0.200 U    | 0.200 U    |         |
|   |                            |                     | 06/02/11                  | SES        | Peristaltic     | 100 U                                     | 240 x      | 250 U      | 0.35 U     | 1 U       | 1 U          | 3 U           | 1 U        | 1 U      | 1 U       | 1 U        | 0.2 U      |         |
|   |                            |                     | 09/04/12                  | SES        | Peristaltic     | -   | -          | -          | 0.35 U     | 1 U       | 1 U          | 3 U           | 6.4        | 1 U      | 1 U       | 1 U        | 0.2 U      |         |
|   |                            |                     | 03/21/17                  | PES        | Peristaltic     | 31.6 U                                    | -          | -          | 0.0896 U   | 0.412 U   | 0.158 U      | 0.316 U       | 1.38       | 0.714    | 0.575     | 0.152 U    | 0.118 U    |         |
|   |                            |                     | 06/28/17                  | PES        | Peristaltic     | 31.6 U                                    | -          | -          | 0.0896 U   | 0.412 U   | 0.158 U      | 0.316 U       | 0.834      | 0.582    | 0.735     | 0.152 U    | 0.424 J    |         |
|   |                            |                     | 04/04/18                  | PES        | Peristaltic     | 33.7 J                                    | -          | -          | 0.0896 U   | 0.412 U   | 0.158 U      | 0.316 U       | 16.4       | 0.972    | 1.35      | 0.152 U    | 0.214 J    |         |
|   |                            |                     | Decommissioned March 2019 |            |                 |   |            |            |            |           |              |               |            |          |           |            |            |         |
| <b>Off Property</b>                                     |                            |                     |                           |            |                 |   |            |            |            |           |              |               |            |          |           |            |            |         |
| MW-6  | 31.2 to 16.2               | 800 Aloha St Parcel | 10/12/93                  | Retec      | Unknown         | 150,000                                   | -          | -          | 9,100      | 6,800     | 2,600        | 7,300         | -          | -        | -         | -          | -          |         |
|   |                            |                     | 10/26/93                  | Retec      | Unknown         | 100,000                                   | -          | -          | 17,000     | 14,000    | 1,400        | 11,000        | -          | -        | -         | -          | -          |         |
|   |                            |                     | 01/25/94                  | Retec      | Unknown         | 66,000                                    | -          | -          | 8,800      | 4,600     | 1,500        | 8,100         | -          | -        | -         | -          | -          |         |
|   |                            |                     | 04/25/94                  | Retec      | Unknown         | 120,000                                   | -          | -          | 15,000     | 7,200     | 2,600        | 13,300        | -          | -        | -         | -          | -          |         |
|   |                            |                     | 09/15/94                  | Retec      | Unknown         | 56,000                                    | -          | -          | 15,000     | 2,000     | 1,500        | 7,100         | -          | -        | -         | -          | -          |         |
|   |                            |                     | 06/20/02                  | Urban      | Unknown         | 8,500                                     | -          | -          | 1,900      | 14        | 250          | 53            | -          | -        | -         | -          | -          |         |
| MW-7<br><br>(duplicate)                                 | 26.09 to 16.09             | 800 Aloha St Parcel | 10/12/93                  | Retec      | Unknown         | 75,000                                    | -          | -          | 20,000     | 22,000    | 3,000        | 15,000        | -          | -        | -         | -          | -          |         |
|   |                            |                     | 10/26/93                  | Retec      | Unknown         | 74,000                                    | -          | -          | 8,300      | 7,400     | 1,100        | 8,300         | -          | -        | -         | -          | -          |         |
|   |                            |                     | 01/25/94                  | Retec      | Unknown         | 53,000                                    | -          | -          | 1,600      | 2,700     | 1,400        | 5,100         | -          | -        | -         | -          | -          |         |
|   |                            |                     | 04/25/94                  | Retec      | Unknown         | 140,000                                   | -          | -          | 3,900      | 7,400     | 3,100        | 14,100        | -          | -        | -         | -          | -          |         |
|   |                            |                     | 09/15/94                  | Retec      | Unknown         | 66,000                                    | -          | -          | 3,400      | 2,700     | 1,900        | 7,700         | -          | -        | -         | -          | -          |         |
|   |                            |                     | 06/20/02                  | Urban      | Unknown         | 8,400                                     | -          | -          | 650        | 37        | 470          | 150           | -          | -        | -         | -          | -          |         |
| MW-8<br><br>(duplicate)<br><br>(duplicate)<br><br>(dry) | 28.69 to 14.19             | 800 Aloha St Parcel | 10/26/93                  | Retec      | Unknown         | 280                                       | -          | -          | 19         | 1         | 1 U          | 48            | -          | -        | -         | -          | -          |         |
|   |                            |                     | 01/25/94                  | Retec      | Unknown         | 230 J                                     | -          | -          | 13         | 0.7 J     | 1 U          | 4.5           | -          | -        | -         | -          | -          |         |
|   |                            |                     | 01/25/94                  | Retec      | Unknown         | 210 J                                     | -          | -          | 12         | 0.6 J     | 1 U          | 3.7           | -          | -        | -         | -          | -          |         |
|   |                            |                     | 04/25/94                  | Retec      | Unknown         | 250 U                                     | -          | -          | 2.2        | 1 U       | 1 U          | 1.7           | -          | -        | -         | -          | -          |         |
|   |                            |                     | 09/15/94                  | Retec      | Unknown         | 210 J                                     | -          | -          | 1 U        | 0.5 J     | 1 U          | 1.6 J         | -          | -        | -         | -          | -          |         |
|   |                            |                     | 09/15/94                  | Retec      | Unknown         | 250                                       | -          | -          | 1 U        | 0.5 J     | 1 U          | 1.7 J         | -          | -        | -         | -          | -          |         |
|   |                            |                     | 06/21/02                  | Urban      | Unknown         | 50 U                                      | -          | -          | 1 U        | 1 U       | 1 U          | 1 U           | -          | -        | -         | -          | -          |         |
|   |                            |                     | 03/20/17                  | PES        | Peristaltic     | -   | -          | -          | 0.145 J    | 0.412 U   | 0.175 J      | 0.316 U       | 0.199 U    | 0.153 U  | 0.0933 U  | 0.152 U    | 0.118 U    |         |
|   |                            |                     | 04/13/18                  | PES        | Peristaltic     | -   | -          | -          | 0.0896 U   | 0.412 U   | 0.158 U      | 0.316 U       | 0.570      | 0.153 U  | 0.0933 U  | 0.152 U    | 0.118 U    |         |



Table 3

**Groundwater Analytical Data for Shallow Zone Wells  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

| Sample Location             | Well Screen Elevation (ft) | Sample Area                   | Sample Date | Sampled By     | Sampling Method   | Analytical Results (micrograms per liter) |              |         |                |                |              |             |                |                |             |                |               |               |     |
|-----------------------------|----------------------------|-------------------------------|-------------|----------------|-------------------|---|--------------|---------|----------------|----------------|--------------|-------------|----------------|----------------|-------------|----------------|---------------|---------------|-----|
|                             |                            |                               |             |                |                   | Screening Level                           |              |         |                |                |              | GRO         | DRO            | ORO            | Benzene     | Toluene        | Ethylbenzene  | Total Xylenes | PCE |
|                             |                            |                               |             |                |                   | 800                                       | 500          | 500     | 0.5            | 72             | 29           | 10,000      | 2.4            | 1              | 16          | 100            | 0.2           |               |     |
| MW-214 (duplicate) (dry)    | -                          | Valley St ROW                 | 03/30/17    | PES            | Peristaltic       | -   | -            | -       | 0.0896 U       | 0.412 U        | 0.158 U      | 0.316 U     | 0.199 U        | 0.153 U        | 0.0933 U    | 0.152 U        | 0.118 U       |               |     |
|                             |                            |                               | 03/30/17    | PES            | Peristaltic       | -   | -            | -       | 0.0896 U       | 0.412 U        | 0.158 U      | 0.316 U     | 0.199 U        | 0.153 U        | 0.0933 U    | 0.152 U        | 0.118 U       |               |     |
|                             |                            |                               | 06/21/17    | PES            | Peristaltic       | -   | -            | -       | -              | -              | -            | -           | -              | -              | -           | -              | -             | -             |     |
|                             |                            |                               | 04/09/18    | PES            | Peristaltic       | -   | -            | -       | 0.0896 U       | 0.412 U        | 0.158 U      | 0.316 U     | <b>0.725</b>   | 0.153 U        | 0.0933 U    | 0.152 U        | 0.118 U       |               |     |
| R-MW5                       | 42.03 to 27.03             | Dexter Ave North ROW          | 10/28/92    | Roux           | Unknown           | <b>93</b>                                 | <b>86</b>    | 1000 U  | 0.5 U          | <b>1</b>       | 0.5 U        | 0.5 U       | 0.5 U          | 0.5 U          | 0.5 U       | -              | 0.5 U         |               |     |
|                             |                            |                               | 01/29/09    | DOF            | Peristaltic       | 50 U                                      | -            | -       | 0.500 U        | 0.500 U        | 0.500 U      | 1.00 U      | <b>0.800</b>   | 0.200 U        | 0.200 U     | 0.200 U        | 0.200 U       |               |     |
|                             |                            |                               | 06/02/11    | SES            | Peristaltic       | 100 U                                     | 50 U         | 250 U   | 0.35 U         | 1 U            | 1 U          | 3 U         | 1 U            | 1 U            | 1 U         | 1 U            | 0.2 U         |               |     |
|                             |                            |                               | 09/05/12    | SES            | Peristaltic       | -   | -            | -       | 0.35 U         | 1 U            | 1 U          | 3 U         | 1 U            | 1 U            | 1 U         | 1 U            | 0.2 U         |               |     |
|                             |                            |                               | 12/18/13    | SES            | Peristaltic       | 100 U                                     | 50 U         | 250 U   | 0.35 U         | 1 U            | 1 U          | 3 U         | 1 U            | 1 U            | 1 U         | 1 U            | 0.2 U         |               |     |
|                             |                            |                               | 03/23/17    | PES            | Peristaltic       | -   | -            | -       | 0.0896 U       | 0.412 U        | 0.158 U      | 0.316 U     | <b>0.338 J</b> | <b>0.186 J</b> | 0.0933 U    | 0.152 U        | 0.118 U       |               |     |
|                             |                            |                               | 06/16/17    | PES            | Bladder           | -   | -            | -       | 0.0896 U       | 0.412 U        | 0.158 U      | 0.316 U     | <b>0.257 J</b> | <b>0.245 J</b> | 0.0933 U    | 0.152 U        | 0.118 U       |               |     |
|                             |                            |                               | 04/11/18    | PES            | Bladder           | 31.6 U                                    | -            | -       | 0.0896 U       | 0.412 U        | 0.158 U      | 0.316 U     | <b>0.621</b>   | 0.153 U        | 0.0933 U    | 0.152 U        | 0.118 U       |               |     |
|                             |                            |                               | 01/03/19    | PES            | Peristaltic       | <b>81.5 J</b>                             | -            | -       | 0.0896 U       | 0.412 U        | 0.158 U      | 0.316 U     | <b>0.477 J</b> | 0.153 U        | 0.0933 U    | 0.152 U        | 0.118 U       |               |     |
|                             |                            |                               | 04/22/19    | PES            | Peristaltic       | 31.6 U                                    | -            | -       | 0.0896 U       | <b>0.428 J</b> | 0.158 U      | 0.316 U     | <b>0.499 J</b> | <b>0.155 J</b> | 0.0933 U    | 0.152 U        | 0.118 U       |               |     |
|                             |                            |                               | R-MW6       | 33.28 to 23.28 | 8th Ave North ROW | 10/28/92                                  | Roux         | Unknown | 50 U           | 50 U           | 1000 U       | 0.5 U       | <b>2</b>       | 0.5 U          | <b>2</b>    | <b>4,500</b>   | <b>920</b>    | <b>2,600</b>  | -   |
| 11/03/92                    | DOF                        | Unknown                       |             |                |                   | -   | -            | -       | -              | -              | -            | -           | <b>690</b>     | <b>160</b>     | <b>620</b>  | -              | <b>40 U</b>   |               |     |
| 01/29/09                    | DOF                        | Peristaltic                   |             |                |                   | 50.0 U                                    | -            | -       | 0.500 U        | 0.500 U        | 0.500 U      | 1.00 U      | <b>1.78</b>    | 0.200 U        | <b>2.64</b> | 0.200 U        | <b>2.75</b>   |               |     |
| 05/03/10                    | SES                        | Peristaltic                   |             |                |                   | -   | -            | -       | -              | -              | -            | -           | 1 U            | 1 U            | <b>1.2</b>  | 1 U            | <b>2.8</b>    |               |     |
| 06/02/11                    | SES                        | Peristaltic                   |             |                |                   | 100 U                                     | <b>120 x</b> | 250 U   | 0.35 U         | 1 U            | 1 U          | 3 U         | 1 U            | 1 U            | 1 U         | 1 U            | <b>2.1</b>    |               |     |
| 09/05/12                    | SES                        | Peristaltic                   |             |                |                   | -   | -            | -       | 0.35 U         | 1 U            | 1 U          | 3 U         | 1 U            | 1 U            | 1 U         | 1 U            | 0.2 U         |               |     |
| 03/21/17                    | PES                        | Peristaltic                   |             |                |                   | <b>42.8 J</b>                             | -            | -       | 0.0896 U       | 0.412 U        | 0.158 U      | 0.316 U     | <b>1.08</b>    | <b>3.17</b>    | <b>20.0</b> | <b>0.242 J</b> | <b>8.65</b>   |               |     |
| 06/20/17                    | PES                        | Peristaltic                   |             |                |                   | <b>38.5</b>                               | -            | -       | <b>0.167 J</b> | <b>0.619</b>   | 0.158 U      | 0.316 U     | <b>1.19</b>    | <b>0.878</b>   | <b>37.3</b> | <b>0.445 J</b> | <b>43.9</b>   |               |     |
| 04/06/18                    | PES                        | Peristaltic                   |             |                |                   | 31.6 U                                    | -            | -       | 0.0896 U       | 0.412 U        | 0.158 U      | 0.316 U     | <b>1.85</b>    | <b>2.24</b>    | <b>19.4</b> | <b>0.277 J</b> | <b>26.9</b>   |               |     |
| 01/25/19                    | PES                        | Peristaltic                   |             |                |                   | -   | -            | -       | <b>0.142 J</b> | 0.412 U        | 0.158 U      | 0.316 U     | <b>0.328 J</b> | <b>1.07</b>    | <b>12.5</b> | 0.152 U        | <b>9.14</b>   |               |     |
| 04/25/19                    | PES                        | Peristaltic                   |             |                |                   | 31.6 U                                    | -            | -       | 0.0896 U       | 0.412 U        | 0.158 U      | 0.316 U     | 0.199 U        | <b>0.370 J</b> | <b>11.8</b> | <b>0.168 J</b> | <b>7.16 J</b> |               |     |
| SCL-MW101                   | -                          | Alley Between 8th & 9th Ave N | 03/28/17    | PES            | Peristaltic       | -   | -            | -       | <b>6.74</b>    | 0.624 U        | <b>0.598</b> | <b>2.08</b> | 0.199 U        | 0.153 U        | 0.0933 U    | 0.152 U        | 0.118 U       |               |     |
|                             |                            |                               | 06/14/17    | PES            | Peristaltic       | -   | -            | -       | <b>18.6</b>    | <b>1.68</b>    | <b>17.1</b>  | <b>3.50</b> | 0.199 U        | 0.153 U        | 0.0933 U    | 0.152 U        | 0.118 U       |               |     |
|                             |                            |                               | 04/06/18    | PES            | Peristaltic       | -   | -            | -       | <b>10.6</b>    | <b>1.24</b>    | <b>11.7</b>  | <b>3.32</b> | 0.199 U        | 0.153 U        | 0.0933 U    | 0.152 U        | 0.118 U       |               |     |
| SCL-MW105                   | -                          | Alley Between 8th & 9th Ave N | 03/28/17    | PES            | Peristaltic       | -   | -            | -       | <b>257</b>     | <b>16.3</b>    | <b>26.5</b>  | <b>33.9</b> | 0.995 U        | 0.765 U        | 0.466 U     | 0.760 U        | 0.590 U       |               |     |
|                             |                            |                               | 06/15/17    | PES            | Peristaltic       | -   | -            | -       | <b>208</b>     | <b>14.3</b>    | <b>109</b>   | <b>40.8</b> | 0.199 U        | 0.153 U        | 0.0933 U    | 0.152 U        | 0.118 U       |               |     |
|                             |                            |                               | 04/06/18    | PES            | Peristaltic       | -   | -            | -       | <b>181</b>     | <b>12.1</b>    | <b>26.6</b>  | <b>28.4</b> | 1.99 U         | 1.53 U         | 0.933 U     | 1.52 U         | 1.18 U        |               |     |
| SCS-2                       | -                          | 800 Aloha St Parcel           | 03/20/17    | PES            | Peristaltic       | <b>1,660</b>                              | -            | -       | <b>51.8</b>    | <b>9.54</b>    | <b>155</b>   | <b>181</b>  | 0.199 U        | 0.153 U        | 0.0933 U    | 0.152 U        | 0.118 U       |               |     |
|                             |                            |                               | 06/12/17    | PES            | Peristaltic       | <b>901</b>                                | -            | -       | <b>58.9</b>    | <b>4.49</b>    | <b>141</b>   | <b>70.4</b> | 0.199 U        | 0.153 U        | 0.0933 U    | 0.152 U        | 0.118 U       |               |     |
|                             |                            |                               | 04/13/18    | PES            | Peristaltic       | -   | -            | -       | <b>44.3</b>    | <b>5.18</b>    | <b>37.3</b>  | <b>47.7</b> | 0.199 U        | 0.153 U        | 0.0933 U    | 0.152 U        | 0.118 U       |               |     |
| SMW-3                       | -                          | Valley St ROW                 | 03/30/17    | PES            | Peristaltic       | -   | -            | -       | 0.0896 U       | 0.412 U        | 0.158 U      | 0.316 U     | 0.199 U        | 0.153 U        | 0.0933 U    | 0.152 U        | 0.118 U       |               |     |
|                             |                            |                               | 06/21/17    | PES            | Peristaltic       | -   | -            | -       | 0.0896 U       | 0.412 U        | 0.158 U      | 0.316 U     | 0.199 U        | 0.153 U        | 0.0933 U    | 0.152 U        | 0.118 U       |               |     |
|                             |                            |                               | 04/09/18    | PES            | Peristaltic       | -   | -            | -       | 0.0896 U       | 0.412 U        | 0.158 U      | 0.316 U     | 0.199 U        | 0.153 U        | 0.0933 U    | 0.152 U        | 0.118 U       |               |     |
| <b>Decommissioned Wells</b> |                            |                               |             |                |                   |   |              |         |                |                |              |             |                |                |             |                |               |               |     |
| R-MW4                       | 25.94 to 10.94             | Roy St ROW                    | 10/24/92    | Roux           | Unknown           | <b>410</b>                                | <b>201</b>   | 1000 U  | 0.5 U          | <b>2</b>       | <b>1</b>     | <b>4</b>    | <b>814</b>     | <b>64</b>      | -           | 5 U            | 5 U           |               |     |
|                             |                            |                               | 10/24/92    | DOF            | Unknown           | <b>640</b>                                | -            | -       | 0.5 U          | <b>1.8</b>     | 0.5 U        | <b>3.1</b>  | <b>31</b>      | <b>2.8</b>     | 2.0 U       | -              | 2.0 U         |               |     |
| Decommissioned before 2009  |                            |                               |             |                |                   |   |              |         |                |                |              |             |                |                |             |                |               |               |     |

Table 3

**Groundwater Analytical Data for Shallow Zone Wells  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

| Sample Location  | Well Screen Elevation (ft) | Sample Area         | Sample Date          | Sampled By   | Sampling Method   | Analytical Results (micrograms per liter) |            |            |            |  |                                |                               |                            |                               |  |            |            |         |                |                   |  |  |  |  |
|--|----------------------------|---------------------|----------------------|--------------|-------------------|---|------------|------------|------------|--|--------------------------------|-------------------------------|----------------------------|-------------------------------|--|------------|------------|---------|----------------|-------------------|--|--|--|--|
|  |                            |                     |                      |              |                   | GRO                                       | DRO        | ORO        | Benzene    | Toluene  | Ethylbenzene                   | Total Xylenes                 | PCE                        | TCE                           | cDCE   | tDCE       | VC         |         |                |                   |  |  |  |  |
| <b>Screening Level</b>   |                            |                     |                      |              |                   | <b>800</b>                                | <b>500</b> | <b>500</b> | <b>0.5</b> | <b>72</b>  | <b>29</b>                      | <b>10,000</b>                 | <b>2.4</b>                 | <b>1</b>                      | <b>16</b>  | <b>100</b> | <b>0.2</b> |         |                |                   |  |  |  |  |
| MW-1   | –                          | 800 Aloha St Parcel | 03/22/93<br>06/17/93 | EPJ<br>Retec | Bailer<br>Unknown | <b>5,100</b><br>–                         | 500<br>–   | U<br>–     | 1000<br>–  | U<br>–   | <b>10,000</b><br><b>20,000</b> | <b>270</b><br><b>14,000</b>   | <b>480</b><br><b>840</b>   | <b>427</b><br><b>6,700</b>    | –<br>–   | –<br>–     | –<br>–     | –<br>–  | –<br>–         |                   |  |  |  |  |
| Decommissioned on October 12, 1993   |                            |                     |                      |              |                   |   |            |            |            |  |                                |                               |                            |                               |  |            |            |         |                |                   |  |  |  |  |
| MW-2   | –                          | 8th Ave North ROW   | 03/22/93<br>06/17/93 | EPJ<br>Retec | Bailer<br>Unknown | <b>650</b><br>–                           | 500<br>–   | U<br>–     | 1000<br>–  | U<br>–   | <b>100</b><br><b>28</b>        | <b>42</b><br><b>7.2</b>       | <b>24</b><br><b>1</b>      | <b>67</b><br><b>2</b>         | –<br>U   | –<br>–     | –<br>–     | –<br>–  | –<br><b>25</b> | –<br><b>1,100</b> |  |  |  |  |
| Decommissioned on October 12, 1993   |                            |                     |                      |              |                   |   |            |            |            |  |                                |                               |                            |                               |  |            |            |         |                |                   |  |  |  |  |
| MW-3   | –                          | 800 Aloha St Parcel | 03/22/93<br>06/17/93 | EPJ<br>Retec | Bailer<br>Unknown | <b>27,000</b><br>–                        | 500<br>–   | U<br>–     | 1000<br>–  | U<br>–   | <b>1,500</b><br><b>4,800</b>   | <b>3,300</b><br><b>21,000</b> | <b>690</b><br><b>1,900</b> | <b>3,500</b><br><b>12,300</b> | –<br>–   | –<br>–     | –<br>–     | –<br>–  | –<br>–         | –<br>–            |  |  |  |  |
| Decommissioned on October 12, 1993   |                            |                     |                      |              |                   |   |            |            |            |  |                                |                               |                            |                               |  |            |            |         |                |                   |  |  |  |  |
| MW-4   | –                          | 800 Aloha St Parcel | 03/22/93<br>06/17/93 | EPJ<br>Retec | Bailer<br>Unknown | <b>940</b><br>–                           | 500<br>–   | U<br>–     | 1000<br>–  | U<br>–   | <b>82</b><br><b>1</b>          | <b>390</b><br><b>1</b>        | <b>39</b><br><b>1</b>      | <b>108</b><br><b>2</b>        | –<br>U   | –<br>–     | –<br>–     | –<br>–  | –<br>–         | –<br>–            |  |  |  |  |
| Decommissioned on October 12, 1993   |                            |                     |                      |              |                   |   |            |            |            |  |                                |                               |                            |                               |  |            |            |         |                |                   |  |  |  |  |
| MW-5   | –                          | 8th Ave North ROW   | 03/22/93<br>06/17/93 | EPJ<br>Retec | Bailer<br>Unknown | <b>670</b><br>–                           | 500<br>–   | U<br>–     | 1000<br>–  | U<br>–   | <b>49</b><br><b>1</b>          | <b>140</b><br><b>1</b>        | <b>9.8</b><br><b>1</b>     | <b>80</b><br><b>2</b>         | –<br>U   | –<br>–     | –<br>–     | –<br>–  | –<br>–         | –<br>–            |  |  |  |  |
| Decommissioned on October 12, 1993   |                            |                     |                      |              |                   |   |            |            |            |  |                                |                               |                            |                               |  |            |            |         |                |                   |  |  |  |  |
| Number of Analytes Measured  |                            |                     |                      |              |                   | 106                                       | 25         |            | 25         |  | 152                            | 152                           | 152                        | 152                           | 158  | 158        | 154        | 152     | 158            |                   |  |  |  |  |
| Number of Analytes Detected  |                            |                     |                      |              |                   | 49  | 16         |            | 8          |  | 66                             | 60                            | 35                         | 41                            | 97   | 85         | 105        | 53      | 89             |                   |  |  |  |  |
| Frequency of Detection   |                            |                     |                      |              |                   | 46%                                       | 64%        |            | 32%        |  | 43%                            | 39%                           | 23%                        | 27%                           | 61%  | 54%        | 68%        | 35%     | 56%            |                   |  |  |  |  |
| Maximum Detection  |                            |                     |                      |              |                   | 150,000                                   | 26,000     |            | 25,000     |  | 20,000                         | 22,000                        | 3,100                      | 15,000                        | 176,000  | 13,000     | 9,300      | 1,000   | 1,100          |                   |  |  |  |  |
| Minimum Detection  |                            |                     |                      |              |                   | 31.6                                      | U 34.0     |            | 250        | U  | 0.001                          | U 0.412                       | U 0.158                    | U 0.316                       | U 0.199  | U 0.153    | U 0.0933   | U 0.152 | U 0.118        | U                 |  |  |  |  |
| <b>Notes:</b>  |                            |                     |                      |              |                   |   |            |            |            |  |                                |                               |                            |                               |  |            |            |         |                |                   |  |  |  |  |
| VOCs analyzed by EPA Methods 8015, 8020, 8021B, 8240, 8260B, or 8260C or by Purge and Trap Gas Chromatogram/Mass Spectrometry or EPA Method 601, 8010S, 8240, 8260B, or 8260C. |                            |                     |                      |              |                   |   |            |            |            | TCE = trichloroethene  |                                |                               |                            |                               | g = Estimated value. The reported range exceeds the calibration range of the analysis  |            |            |         |                |                   |  |  |  |  |
| * = Monitoring well was installed at a 25 degree angle from the vertical point of penetration.   |                            |                     |                      |              |                   |   |            |            |            | tDCE = trans-1,2-dichloroethene  |                                |                               |                            |                               | J = the identification of the analyte is acceptable; the reported value is an estimate   |            |            |         |                |                   |  |  |  |  |
| (dup) = duplicate  |                            |                     |                      |              |                   |   |            |            |            | VC = vinyl chloride  |                                |                               |                            |                               | qp = Hydrocarbon result partly due to individual peak(s) in quantitation range   |            |            |         |                |                   |  |  |  |  |
| cDCE = cis-1,2-dichloroethene  |                            |                     |                      |              |                   |   |            |            |            | WAC = Washington Administrative Code   |                                |                               |                            |                               | U = not detected at or above the laboratory method detection limit (MDL)   |            |            |         |                |                   |  |  |  |  |
| DOF = Dalton, Olmsted & Fuglevand, Inc.  |                            |                     |                      |              |                   |   |            |            |            | WW = Windward Environmental LLC  |                                |                               |                            |                               | x = The sample chromatographic pattern does not resemble the fuel standard used for quantitation   |            |            |         |                |                   |  |  |  |  |
| DRO = diesel-range organics  |                            |                     |                      |              |                   |   |            |            |            | <u>Laboratory and Results Notes:</u>   |                                |                               |                            |                               | y = The GRO result in the sample is due to a pattern of peaks that is consistent with the chlorinated volatiles detected by the 8260C analysis |            |            |         |                |                   |  |  |  |  |
| GeoE = GeoEngineers, Inc.  |                            |                     |                      |              |                   |   |            |            |            | Detected results shown in bold, detections above the screening level highlighted in gray   |                                |                               |                            |                               |  |            |            |         |                |                   |  |  |  |  |
| GRO = gasoline-range organics  |                            |                     |                      |              |                   |   |            |            |            | – = Not analyzed or results not available  |                                |                               |                            |                               |  |            |            |         |                |                   |  |  |  |  |
| MTCA = Washington State Model Toxics Control Act   |                            |                     |                      |              |                   |   |            |            |            | B = the same analyte is found in the associated blank  |                                |                               |                            |                               |  |            |            |         |                |                   |  |  |  |  |
| ORO = oil-range organics   |                            |                     |                      |              |                   |   |            |            |            | c = Reported as total 1,2,-DCE (sum of cis,-1,2- and trans,1-2-DCE isomers)  |                                |                               |                            |                               |  |            |            |         |                |                   |  |  |  |  |
| PCE = perchloroethylene (tetrachloroethene)  |                            |                     |                      |              |                   |   |            |            |            | E = Estimated value. The reported range exceeds the calibration range of the analysis  |                                |                               |                            |                               |  |            |            |         |                |                   |  |  |  |  |
| Roux = Roux Associates   |                            |                     |                      |              |                   |   |            |            |            | f = Analyte was detected in the associated method blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank |                                |                               |                            |                               |  |            |            |         |                |                   |  |  |  |  |
| SES = SoundEarth Strategies, Inc.  |                            |                     |                      |              |                   |   |            |            |            |  |                                |                               |                            |                               |  |            |            |         |                |                   |  |  |  |  |

Table 4

**Groundwater Analytical Data for Intermediate Water-Bearing Zone Wells  
Former Amereican Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

| Sample Location  | Area Location          | Sample Date               | Sampled By | Sampling Method | Analytical Results (micrograms per liter) |     |     |         |         |              |               |      |        |         |        |        |        |       |        |       |       |       |       |      |       |   |
|--|------------------------|---------------------------|------------|-----------------|---|-----|-----|---------|---------|--------------|---------------|------|--------|---------|--------|--------|--------|-------|--------|-------|-------|-------|-------|------|-------|---|
|  |                        |                           |            |                 | GRO                                       | DRO | ORO | Benzene | Toluene | Ethylbenzene | Total Xylenes | PCE  | TCE    | cDCE    | tDCE   | VC     |        |       |        |       |       |       |       |      |       |   |
| Screening Level  |                        |                           |            |                 | 800                                       | 500 | 500 | 0.5     | 72      | 29           | 10,000        | 2.4  | 1      | 16      | 100    | 0.2    |        |       |        |       |       |       |       |      |       |   |
| <b>Intermediate A Water-Bearing Zone, On Property</b>  |                        |                           |            |                 |   |     |     |         |         |              |               |      |        |         |        |        |        |       |        |       |       |       |       |      |       |   |
| G-MW1<br>(9.01 to 4.01)<br><br>(duplicate)             | The Property           | 07/24/01                  | Geo        | Peristaltic     | –   | –   | –   | 0.449   | 17.6    | E            | 0.798         | 5.52 | 85,500 | 1,130   | 23.3   | g      | 0.956  | 74.5  | g      |       |       |       |       |      |       |   |
|  |                        | 01/29/09                  | DOF        | Peristaltic     | 41,300                                    | qp  | –   | –       | 20.0    | U            | 20.0          | U    | 28.6   | 55.1    | 78,400 | f      | 1,160  | 34.4  | 1.49   | 0.200 | U     |       |       |      |       |   |
|  |                        | 06/03/11                  | SES        | Peristaltic     | 29,000                                    | x   | 92  | x       | 250     | U            | –             | –    | –      | –       | 78,000 | –      | 1,100  | 22    | –      | –     | 33    |       |       |      |       |   |
|  |                        | 09/06/12                  | SES        | Peristaltic     | –   | –   | –   | –       | 0.35    | U            | 7.4           | 1    | U      | 1.1     | 66,000 | –      | 1,100  | 32    | 1.5    | –     | 35    |       |       |      |       |   |
|  |                        | 09/06/12                  | SES        | Peristaltic     | –   | –   | –   | –       | 0.35    | U            | 7.6           | 1    | U      | 1.0     | 64,000 | –      | 1,100  | 30    | 1.4    | –     | 33    |       |       |      |       |   |
|  |                        | Decommissioned            |            |                 |   |     |     |         |         |              |               |      |        |         |        |        |        |       |        |       |       |       |       |      |       |   |
| G-MW3<br>(13.55 to 3.55)                               | The Property           | 07/24/01                  | Geo        | Peristaltic     | –   | –   | –   | 0.524   | 6.93    | E            | 0.459         | 2.10 | 47,700 | 385     | g      | 0.200  | U      | 3.71  | 42.5   | g     |       |       |       |      |       |   |
|  |                        | 12/10/04                  | DOF        | Bailer          | –   | –   | –   | 2       | U       | 7            | 2             | U    | 2      | 220,000 | –      | 1,200  | 570    | 6     | –      | 19    |       |       |       |      |       |   |
|  |                        | 01/29/09                  | DOF        | Peristaltic     | 26,600                                    | qp  | –   | –       | 12.5    | U            | 12.5          | U    | 12.5   | U       | 64,000 | f      | 1,580  | 4,050 | 13.9   | 0.200 | U     |       |       |      |       |   |
|  |                        | 06/02/11                  | SES        | Peristaltic     | 19,000                                    | xy  | 210 | x       | 250     | U            | 350           | U    | 1,000  | U       | 3,000  | U      | 33,000 | –     | 1,400  | 1,500 | 1000  | U     |       |      |       |   |
|  |                        | 09/06/12                  | SES        | Peristaltic     | –   | –   | –   | –       | 0.35    | U            | 1.5           | 1    | U      | 3       | U      | 31,000 | –      | 1,200 | 1,600  | 5.9   | –     | 290   |       |      |       |   |
|  |                        | Decommissioned            |            |                 |   |     |     |         |         |              |               |      |        |         |        |        |        |       |        |       |       |       |       |      |       |   |
| MW131<br>(-4.61 to -14.61)                             | Property               | 03/27/17                  | SES        | Peristaltic     | 91.9                                      | J   | –   | –       | 0.199   | J            | 0.462         | J    | 0.158  | U       | 0.316  | U      | 0.199  | U     | 0.153  | U     | 243   | 0.981 | 804   |      |       |   |
|  |                        | 06/20/17                  | PES        | Peristaltic     | 31.6                                      | U   | –   | –       | 0.448   | U            | 2.06          | U    | 0.790  | U       | 1.58   | U      | 0.995  | U     | 0.765  | U     | 2.55  | 0.760 | U     | 435  |       |   |
|  |                        | 04/16/18                  | PES        | Peristaltic     | 55.3                                      | U   | –   | –       | 0.142   | J            | 0.412         | U    | 0.158  | U       | 0.316  | U      | 7.05   | –     | 3.25   | –     | 10.4  | 0.276 | J     | 18.0 |       |   |
|  |                        | 10/25/18                  | PES        | Peristaltic     | 57.6                                      | U   | –   | –       | 0.0896  | U            | 0.412         | U    | 0.158  | U       | 0.316  | U      | 0.895  | –     | 0.347  | J     | 1.65  | J+    | 0.152 | U    | 1.83  |   |
|  |                        | 12/12/18                  | PES        | Peristaltic     | 31.6                                      | U   | –   | –       | 0.0896  | U            | 0.412         | U    | 0.158  | U       | 0.316  | U      | 0.199  | U     | 0.172  | J     | 1.2   | –     | 0.152 | U    | 1.39  |   |
|  |                        | 1/29/19                   | PES        | Peristaltic     | 43.7                                      | J   | –   | –       | 0.182   | J            | 0.516         | J+   | 0.158  | U       | 0.316  | U      | 0.199  | U     | 0.153  | U     | 0.774 | –     | 0.152 | U    | 0.539 |   |
|  |                        | 3/11/19                   | PES        | Peristaltic     | 31.6                                      | U   | –   | –       | 0.152   | J            | 0.412         | U    | 0.158  | U       | 0.316  | U      | 0.199  | U     | 0.153  | U     | 0.250 | J     | 0.152 | U    | 0.118 | U |
|  |                        | Decommissioned March 2019 |            |                 |   |     |     |         |         |              |               |      |        |         |        |        |        |       |        |       |       |       |       |      |       |   |
| MW-149<br>(0.66 to -9.34)<br><br>(duplicate)           | Property               | 04/10/18                  | PES        | Peristaltic     | 11,700                                    | z   | –   | –       | 44.8    | U            | 2.06          | U    | 0.813  | J       | 1.64   | J      | 19,200 | 8,050 | 10,500 | 29.8  | –     | 863   |       |      |       |   |
|  |                        | 10/25/18                  | PES        | Peristaltic     | 4,570                                     | –   | –   | –       | 0.0896  | U            | 0.412         | U    | 0.158  | U       | 0.316  | U      | 6,100  | 2,720 | 3,320  | 15.3  | –     | 100   |       |      |       |   |
|  |                        | 12/13/18                  | PES        | Peristaltic     | 11,400                                    | –   | –   | –       | 0.0896  | U            | 0.717         | –    | 0.158  | U       | 0.414  | J      | 23,300 | 5,470 | 5,150  | 18.2  | –     | 253   |       |      |       |   |
|  |                        | 12/13/18                  | PES        | Peristaltic     | 11,400                                    | –   | –   | –       | 0.0896  | U            | 0.717         | –    | 0.158  | U       | 0.392  | J      | 24,500 | 5,780 | 5,210  | 18.2  | –     | 243   | J     |      |       |   |
|  |                        | 01/29/19                  | PES        | Peristaltic     | 14,400                                    | J+z | –   | –       | 8.96    | U            | 41.2          | U    | 15.8   | U       | 31.6   | U      | 23,700 | 3,800 | 4,350  | 15.2  | U     | 155   |       |      |       |   |
|  |                        | 03/13/19                  | PES        | Peristaltic     | 15,300                                    | J+  | –   | –       | 0.222   | J            | 0.862         | –    | 0.843  | –       | 0.490  | J      | 2,630  | 2,770 | 30,800 | 129   | –     | 285   |       |      |       |   |
| Decommissioned March 2019                              |                        |                           |            |                 |   |     |     |         |         |              |               |      |        |         |        |        |        |       |        |       |       |       |       |      |       |   |
| MW-151<br>(4.94 to -5.06)                              | Property               | 04/10/18                  | PES        | Peristaltic     | 74.6                                      | U   | –   | –       | 0.253   | J            | 0.412         | UJ   | 0.158  | UJ      | 0.316  | U      | 1.13   | 0.310 | J      | 59.1  | J-    | 0.388 | J-    | 11.4 |       |   |
|  |                        | 10/25/18                  | PES        | Peristaltic     | 99.4                                      | U   | –   | –       | 0.167   | J            | 0.412         | U    | 0.158  | U       | 0.316  | U      | 2.28   | 1.38  | –      | 5.80  | –     | 0.346 | J     | 7.7  |       |   |
|  |                        | 12/14/18                  | PES        | Peristaltic     | 1,040                                     | –   | –   | –       | 0.342   | J            | 0.44          | J    | 0.158  | U       | 0.316  | U      | 1,460  | 155   | 1,690  | 4.56  | –     | –     | 530   |      |       |   |
|  |                        | 1/31/19                   | PES        | Peristaltic     | 340                                       | J+z | –   | –       | 0.0896  | U            | 0.412         | U    | 0.158  | U       | 0.316  | U      | 106    | 40.4  | 466    | 3.52  | –     | –     | 158   |      |       |   |
|  |                        | 3/12/19                   | PES        | Peristaltic     | 143                                       | –   | –   | –       | 0.159   | J            | 0.412         | U    | 4.88   | –       | 0.316  | U      | 0.981  | 1.36  | 196    | 1.60  | –     | –     | 24.9  |      |       |   |
|  |                        | Decommissioned March 2019 |            |                 |   |     |     |         |         |              |               |      |        |         |        |        |        |       |        |       |       |       |       |      |       |   |
| <b>Intermediate A Water-Bearing Zone, Off Property</b> |                        |                           |            |                 |   |     |     |         |         |              |               |      |        |         |        |        |        |       |        |       |       |       |       |      |       |   |
| BB-5   | South of Mercer St ROW | 11/17/97                  | B&V        | Bailer          | 250                                       | U   | 630 | U       | 630     | U            | ND            | ND   | ND     | ND      | ND     | ND     | ND     | ND    | 1.1    | ND    | ND    | ND    |       |      |       |   |
| Decommissioned   |                        |                           |            |                 |   |     |     |         |         |              |               |      |        |         |        |        |        |       |        |       |       |       |       |      |       |   |
| BB-7   | Westlake Ave North ROW | 11/17/97                  | B&V        | Bailer          | 250                                       | U   | 630 | U       | 630     | U            | ND            | ND   | ND     | ND      | ND     | ND     | ND     | ND    | ND     | ND    | ND    | ND    |       |      |       |   |
| Decommissioned   |                        |                           |            |                 |   |     |     |         |         |              |               |      |        |         |        |        |        |       |        |       |       |       |       |      |       |   |

Table 4

**Groundwater Analytical Data for Intermediate Water-Bearing Zone Wells  
Former Amereican Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

| Sample Location          | Area Location     | Sample Date    | Sampled By | Sampling Method | Analytical Results (micrograms per liter) |             |      |     |      |        |         |        |         |       |              |       |               |       |       |       |      |        |       |       |       |       |       |       |   |
|--------------------------|-------------------|----------------|------------|-----------------|---|-------------|------|-----|------|--------|---------|--------|---------|-------|--------------|-------|---------------|-------|-------|-------|------|--------|-------|-------|-------|-------|-------|-------|---|
|                          |                   |                |            |                 | GRO                                       |             | DRO  |     | ORO  |        | Benzene |        | Toluene |       | Ethylbenzene |       | Total Xylenes |       | PCE   | TCE   | cDCE | tDCE   | VC    |       |       |       |       |       |   |
| Screening Level          |                   |                |            |                 | 800                                       | 500         | 500  | 0.5 | 72   | 29     | 10,000  | 2.4    | 1       | 16    | 100          | 0.2   |               |       |       |       |      |        |       |       |       |       |       |       |   |
| BB-8<br>(13.69 to 3.69)  | Roy St ROW        | 06/24/97       | B&V        | Bailer          | 200                                       | U           | 500  | U   | 1000 | U      | 1.8     | 1.3    | 1.0     | U     | 1.0          | U     | 11,000        | 1,500 | 4,200 | 14    | 280  |        |       |       |       |       |       |       |   |
|                          |                   | 01/29/09       | DOF        | -               | 499                                       |             | -    |     | -    |        | 0.694   | 0.500  | U       | 0.500 | U            | 1.00  | U             | 896   | f     | 258   | 441  | 2.45   | 1.48  |       |       |       |       |       |   |
|                          |                   | 05/03/10       | SES        | Peristaltic     | -   |             | -    |     | -    |        | -       | -      | -       | -     | -            | -     | 510           | 120   | 110   | 1     | U    | 0.27   |       |       |       |       |       |       |   |
|                          |                   | 06/02/11       | SES        | Peristaltic     | 130                                       | xy          | 50   | U   | 250  | U      | 0.35    | U      | 1       | U     | 1            | U     | 3             | U     | 170   | 59    | 44   | 1      | U     | 0.2   | U     |       |       |       |   |
|                          |                   | 09/05/12       | SES        | Peristaltic     | -   |             | -    |     | -    |        | 0.35    | U      | 1       | U     | 1            | U     | 3             | U     | 200   | 41    | 28   | 1      | U     | 0.2   | U     |       |       |       |   |
|                          |                   | 12/29/13       | SES        | Bladder         | -   |             | -    |     | -    |        | 0.35    | U      | 1       | U     | 1            | U     | 3             | U     | 200   | 38    | 24   | 1      | U     | 0.2   | U     |       |       |       |   |
|                          |                   | 06/17/15       | SES        | Peristaltic     | -   |             | -    |     | -    |        | -       | -      | -       | -     | -            | -     | 170           | 40    | 37    | 10    | U    | 2.0    |       |       |       |       |       |       |   |
|                          |                   | 03/22/17       | PES        | Peristaltic     | -   |             | -    |     | -    |        | 0.0896  | U      | 0.412   | U     | 0.158        | U     | 0.316         | U     | 30.4  | 4.95  | 3.10 | 0.152  | U     | 0.118 | U     |       |       |       |   |
|                          |                   | 06/14/17       | PES        | Peristaltic     | -   |             | -    |     | -    |        | 0.0896  | U      | 0.412   | U     | 0.158        | U     | 0.316         | U     | 26.0  | 8.57  | 12.6 | 0.155  | J     | 0.118 | U     |       |       |       |   |
|                          |                   | 04/11/18       | PES        | Peristaltic     | 40.9                                      | U           | -    |     | -    |        | 0.0896  | U      | 0.412   | U     | 0.158        | U     | 0.316         | U     | 33.7  | J     | 6.13 | J      | 4.64  | J     | 0.152 | U     | 0.118 | U     |   |
|                          |                   | (duplicate)    |            | 04/11/18        | PES                                       | Peristaltic | 41.5 | U   | -    |        | -       | 0.0896 | U       | 0.412 | U            | 0.158 | U             | 0.316 | U     | 46.8  | J    | 8.41   | J     | 6.28  | J     | 0.152 | U     | 0.118 | U |
|                          |                   |                |            | 01/23/19        | PES                                       | Peristaltic | 99.6 | J   | -    |        | -       | 0.0896 | U       | 0.412 | U            | 0.158 | U             | 0.316 | U     | 133   |      | 43.1   |       | 81.5  |       | 0.402 | J     | 0.618 |   |
|                          |                   |                |            | 04/23/19        | PES                                       | Peristaltic | 31.6 | U   | -    |        | -       | 0.0896 | U       | 0.412 | U            | 0.158 | U             | 0.316 | U     | 48.8  |      | 9.09   |       | 7.57  |       | 0.152 | U     | 0.118 | U |
| BB-8A                    | Roy St ROW        | 01/29/09       | DOF        | Peristaltic     | 669                                       |             | -    |     | -    | 0.500  | U       | 0.500  | U       | 0.500 | U            | 1.00  | U             | 1,290 | f     | 285   | 549  | 2.96   | 3.86  |       |       |       |       |       |   |
|                          |                   | 05/03/10       | SES        | Peristaltic     | -   |             | -    |     | -    | -      | -       | -      | -       | -     | -            | -     | -             | 810   |       | 180   | 140  | 1.6    | 0.78  |       |       |       |       |       |   |
|                          |                   | 06/02/11       | SES        | Peristaltic     | 380                                       | xy          | 50   | U   | 250  | U      | 3.5     | U      | 10      | U     | 10           | U     | 30            | U     | 710   |       | 170  | 170    | 10    | U     | 2     | U     |       |       |   |
|                          |                   | Decommissioned |            |                 |   |             |      |     |      |        |         |        |         |       |              |       |               |       |       |       |      |        |       |       |       |       |       |       |   |
| BB-12                    | 9th Ave North ROW | 05/19/98       | B&V        | Bailer          | 250                                       | U           | 630  | U   | 630  | U      | ND      | ND     | ND      | ND    | ND           | ND    | ND            | ND    | ND    | 540   | ND   | 380    |       |       |       |       |       |       |   |
|                          |                   | 05/02/10       | SES        | Peristaltic     | -   |             | -    |     | -    |        | -       | -      | -       | -     | -            | -     | 1             | U     | 1     | U     | 1    | U      | 1     | U     | 0.2   | U     |       |       |   |
|                          |                   | Decommissioned |            |                 |   |             |      |     |      |        |         |        |         |       |              |       |               |       |       |       |      |        |       |       |       |       |       |       |   |
| BB-12A                   | 9th Ave North ROW | 05/02/10       | SES        | Peristaltic     | -   |             | -    |     | -    | -      | -       | -      | -       | -     | -            | 1     | U             | 1     | U     | 1     | U    | 1      | U     | 0.2   | U     |       |       |       |   |
|                          |                   | Decommissioned |            |                 |   |             |      |     |      |        |         |        |         |       |              |       |               |       |       |       |      |        |       |       |       |       |       |       |   |
| GEI-MW-1                 | 739 9th Ave N     | 09/06/14       | Geo        | Peristaltic     | 50.0                                      | U           | 50.0 | U   | 100  | U      | 1.00    | U      | 1.00    | U     | 1.00         | U     | 1.00          | U     | 0.250 | 0.240 | 1.00 | U      | 0.500 | U     | 0.200 | U     |       |       |   |
| GEI-MW-2                 | 739 9th Ave N     | 09/06/14       | Geo        | Peristaltic     | 28.9                                      |             | 50.0 | U   | 100  | U      | 14.1    | 4.44   | -       | -     | 1.00         | U     | 1.00          | U     | 0.410 | 1.00  | U    | 0.500  | U     | 1.34  |       |       |       |       |   |
| GEI-MW-3                 | 739 9th Ave N     | 09/06/14       | Geo        | Peristaltic     | 50.0                                      | U           | 50.0 | U   | 100  | U      | 1.00    | U      | 9.03    | -     | 1.00         | U     | 1.00          | U     | 0.610 | 1.00  | U    | 0.500  | U     | 3.14  |       |       |       |       |   |
| GEI-1<br>(1.15 to -8.85) | Block 37          | 03/24/17       | PES        | Peristaltic     | -   |             | -    |     | -    | 0.0896 | U       | 0.412  | U       | 0.158 | U            | 0.316 | U             | 0.199 | U     | 0.153 | U    | 0.0933 | U     | 0.152 | U     | 0.118 | U     |       |   |
|                          |                   | 06/13/17       | PES        | Bladder         | -   |             | -    |     | -    | 0.0896 | U       | 0.412  | U       | 0.244 | J            | 0.316 | U             | 0.199 | U     | 0.153 | U    | 0.0933 | U     | 0.152 | U     | 0.118 | U     |       |   |
|                          |                   | 04/22/19       | PES        | Peristaltic     | -   |             | -    |     | -    | 0.0896 | U       | 0.412  | U       | 0.158 | U            | 0.316 | U             | 0.199 | U     | 0.153 | U    | 0.0933 | U     | 0.152 | U     | 0.118 | U     |       |   |

Table 4

**Groundwater Analytical Data for Intermediate Water-Bearing Zone Wells  
Former Amereican Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

| Sample Location            | Area Location   | Sample Date | Sampled By | Sampling Method | Analytical Results (micrograms per liter) |       |         |          |         |              |               |          |          |         |         |        |  |  |  |
|----------------------------|---|-------------|------------|-----------------|---|-------|---------|----------|---------|--------------|---------------|----------|----------|---------|---------|--------|--|--|--|
|                            |   |             |            |                 | GRO                                       | DRO   | ORO     | Benzene  | Toluene | Ethylbenzene | Total Xylenes | PCE      | TCE      | cDCE    | tDCE    | VC     |  |  |  |
| Screening Level            |   |             |            |                 | 800                                       | 500   | 500     | 0.5      | 72      | 29           | 10,000        | 2.4      | 1        | 16      | 100     | 0.2    |  |  |  |
| MW107<br>(8.81 to -1.18)   | 8th Ave North ROW<br>(duplicate)                          | 12/21/12    | SES        | Peristaltic     | 240,000 xy                                | 190 x | 250 U   | 3.5 U    | 10 U    | 10 U         | 30 U          | 47,000   | 2,800    | 5,100   | 41      | 200    |  |  |  |
|                            |   | 12/21/12    | SES        | Peristaltic     | -   | -     | -       | -        | -       | -            | -             | 50,000   | 3,000    | 5,200   | 44      | 270    |  |  |  |
|                            |   | 12/16/13    | SES        | Peristaltic     | -   | -     | -       | 0.37 U   | 1.8     | 1 U          | 3.3           | 32,000   | 2,400    | 4,000   | 34      | 76     |  |  |  |
|                            |   | 06/17/15    | SES        | Peristaltic     | -   | -     | -       | -        | -       | -            | -             | 1,900    | 5,000    | 5,000   | 100 U   | 40     |  |  |  |
|                            |   | 10/20/15    | SES        | Peristaltic     | -   | -     | -       | -        | -       | -            | -             | 2,300    | 5,100    | 3,600   | 60      | 27     |  |  |  |
|                            |   | 11/10/15    | SES        | Peristaltic     | -   | -     | -       | -        | -       | -            | -             | 620      | 3,800    | 4,400   | 54      | 31     |  |  |  |
|                            |   | 12/11/15    | SES        | Peristaltic     | -   | -     | -       | -        | -       | -            | -             | 1,200    | 4,200    | 4,200   | 57      | 22     |  |  |  |
|                            |   | 01/08/16    | SES        | Peristaltic     | -   | -     | -       | -        | -       | -            | -             | 1,000    | 3,600    | 3,900   | 50      | 20     |  |  |  |
|                            |   | 02/01/16    | SES        | Peristaltic     | -   | -     | -       | -        | -       | -            | -             | 61       | 220      | 10,000  | 33      | 73     |  |  |  |
|                            |   | 03/27/17    | PES        | Peristaltic     | -   | -     | -       | 0.204 J  | 0.690 J | 0.158 U      | 0.316 U       | 0.224 J  | 0.370 J  | 6.82    | 14.0    | 34.5   |  |  |  |
|                            |   | 06/19/17    | PES        | Peristaltic     | -   | -     | -       | 0.238 J  | 0.700   | 0.158 U      | 0.316 U       | 0.199 U  | 0.290 J  | 7.29    | 12.6    | 15.0   |  |  |  |
|                            |   | 04/09/18    | PES        | Peristaltic     | -   | -     | -       | 0.193 J  | 0.412 U | 0.158 U      | 0.316 U       | 0.879 J- | 0.581 J- | 72.1 J- | 10.5    | 123    |  |  |  |
|                            |   | 01/30/19    | PES        | Peristaltic     | 663 J+z                                   | -     | -       | 0.215 J  | 0.715   | 0.158 U      | 0.316 U       | 0.199 U  | 41.1     | 1,130   | 14.4    | 474    |  |  |  |
|                            |   | 05/01/19    | PES        | Peristaltic     | 481 J+                                    | -     | -       | 0.188 J  | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 99.9     | 1,250   | 14.1    | 374    |  |  |  |
| MW108<br>(-7.22 to -17.22) | Alley Between 8th and<br>9th Ave North<br><br>(duplicate) | 12/21/12    | SES        | Peristaltic     | -   | -     | -       | -        | -       | -            | -             | 3.4      | 1.8      | 400     | 2.1     | 210 pr |  |  |  |
|                            |   | 12/17/13    | SES        | Peristaltic     | -   | -     | -       | 1.9      | 1 U     | 1 U          | 3 U           | 3.8      | 4.6      | 360     | 3.6     | 150    |  |  |  |
|                            |   | 06/17/15    | SES        | Peristaltic     | -   | -     | -       | -        | -       | -            | -             | 4.0      | 11       | 370     | 3.5     | 260    |  |  |  |
|                            |   | 10/20/15    | SES        | Peristaltic     | -   | -     | -       | -        | -       | -            | -             | 3.0      | 6.4      | 220     | 1.8     | 140    |  |  |  |
|                            |   | 02/02/16    | SES        | Peristaltic     | -   | -     | -       | -        | -       | -            | -             | 15       | 7.9      | 290     | 1.8     | 180    |  |  |  |
|                            |   | 03/28/17    | PES        | Peristaltic     | -   | -     | -       | 1.59     | 0.479 U | 0.158 U      | 0.316 U       | 73.1     | 12.5     | 278     | 0.899   | 52.3   |  |  |  |
|                            |   | 06/27/17    | PES        | Bladder         | -   | -     | -       | 1.26     | 0.479 U | 0.158 UJ     | 0.316 U       | 194      | 22.1     | 165     | 0.748   | 52.8   |  |  |  |
|                            |   | 04/06/18    | PES        | Peristaltic     | -   | -     | -       | 4.00     | 0.599   | 0.158 UJ     | 0.316 U       | 1,970    | 284      | 1,030   | 7.13    | 217    |  |  |  |
|                            |   | 04/06/18    | PES        | Peristaltic     | -   | -     | -       | 3.83     | 0.597   | 0.158 UJ     | 0.316 U       | 1,980    | 287      | 1,020   | 7.91    | 231    |  |  |  |
|                            |   | 01/22/19    | PES        | Peristaltic     | -   | -     | -       | 1.67     | 0.562   | 0.158 U      | 0.316 U       | 4,190    | 587      | 1,180   | 6.03    | 90.8   |  |  |  |
| 04/29/19                   | PES   | Peristaltic | -          | -               | -   | 3.20  | 0.412 U | 0.158 U  | 0.316 U | 419          | 171           | 970      | 3.22     | 125 J   |         |        |  |  |  |
| MW109<br>(-0.03 to -10.03) | Alley Between 8th and<br>9th Ave North                    | 12/21/12    | SES        | Peristaltic     | -   | -     | -       | -        | -       | -            | -             | 91       | 64       | 18      | 1 U     | 1.5    |  |  |  |
|                            |   | 12/17/13    | SES        | Peristaltic     | -   | -     | -       | 0.35 U   | 1 U     | 1 U          | 3 U           | 4.0      | 18       | 310     | 1 U     | 27     |  |  |  |
|                            |   | 06/17/15    | SES        | Peristaltic     | -   | -     | -       | -        | -       | -            | -             | 370      | 890      | 520     | 1.2     | 26     |  |  |  |
|                            |   | 10/20/15    | SES        | Peristaltic     | -   | -     | -       | -        | -       | -            | -             | 230      | 790      | 400     | 20 U    | 22     |  |  |  |
|                            |   | 02/02/16    | SES        | Peristaltic     | -   | -     | -       | -        | -       | -            | -             | 34       | 330      | 270     | 1 U     | 19     |  |  |  |
|                            |   | 03/29/17    | PES        | Peristaltic     | -   | -     | -       | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.198 J  | 12.6    | 0.152 U | 3.49   |  |  |  |
|                            |   | 06/27/17    | PES        | Bladder         | -   | -     | -       | 0.0896 U | 0.412 U | 0.158 UJ     | 0.316 U       | 9.69 J   | 1.17     | 163     | 1.17    | 6.06   |  |  |  |
|                            |   | 04/06/18    | PES        | Peristaltic     | -   | -     | -       | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 1.99 UJ  | 210      | 629     | 3.34    | 42.2   |  |  |  |
|                            |   | 01/23/19    | PES        | Peristaltic     | -   | -     | -       | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.995 U  | 43.8     | 403     | 2.08    | 36.8   |  |  |  |
|                            |   | 04/29/19    | PES        | Peristaltic     | -   | -     | -       | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U  | 4.78    | 0.152 U | 3.06 J |  |  |  |

Table 4

**Groundwater Analytical Data for Intermediate Water-Bearing Zone Wells  
Former Amereican Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

| Sample Location            | Area Location   | Sample Date           | Sampled By | Sampling Method | Analytical Results (micrograms per liter) |          |         |          |         |              |               |         |         |          |         |         |     |
|----------------------------|---|-----------------------|------------|-----------------|---|----------|---------|----------|---------|--------------|---------------|---------|---------|----------|---------|---------|-----|
|                            |   |                       |            |                 | GRO                                       | DRO      | ORO     | Benzene  | Toluene | Ethylbenzene | Total Xylenes | PCE     | TCE     | cDCE     | tDCE    | VC      |     |
| Screening Level            |   |                       |            |                 | 800                                       | 500      | 500     | 0.5      | 72      | 29           | 10,000        | 2.4     | 1       | 16       | 100     | 0.2     |     |
| MW110<br>(4.67 to -5.33)   | Alley Between 8th and<br>9th Ave North<br><br><br><br><br><br><br><br><br><br>(duplicate) | 12/21/12              | SES        | Bladder         | -   | -        | -       | -        | -       | -            | -             | -       | 1,100   | 220      | 470     | 3.0     | 33  |
|                            |   | 12/19/13              | SES        | Peristaltic     | -   | -        | -       | 0.35 U   | 1 U     | 1 U          | 3 U           | 930     | 240     | 840      | 3.9     | 31      |     |
|                            |   | 04/22/15              | SES        | Peristaltic     | -   | -        | -       | -        | -       | -            | -             | -       | 1,000   | 210      | 340     | 2.4     | 1   |
|                            |   | 06/17/15              | SES        | Peristaltic     | -   | -        | -       | -        | -       | -            | -             | -       | 1,000   | 200      | 470     | 10 U    | 12  |
|                            |   | 10/20/15              | SES        | Peristaltic     | -   | -        | -       | -        | -       | -            | -             | -       | 890     | 180      | 380     | 2.2     | 13  |
|                            |   | 02/01/16              | SES        | Peristaltic     | -   | -        | -       | -        | -       | -            | -             | -       | 1,300   | 290      | 460     | 3.0     | 1.1 |
|                            |   | 03/23/17              | PES        | Peristaltic     | -   | -        | -       | 0.330 J  | 0.412 U | 0.158 U      | 0.316 U       | 1,070   | 389     | 644      | 4.72    | 1.45    |     |
|                            |   | 06/27/17              | PES        | Bladder         | -   | -        | -       | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 259     | 176     | 1,120    | 2.66    | 152     |     |
|                            |   | 04/09/18              | PES        | Bladder         | -   | -        | -       | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 375 J-  | 253 J-  | 675 J-   | 3.72    | 3.54    |     |
|                            |   | 01/23/19              | PES        | Peristaltic     | -   | -        | -       | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 1,260   | 490     | 673      | 5.83    | 1.39    |     |
| 01/23/19                   | PES   | Peristaltic           | -          | -               | -   | 0.0896 U | 0.412 U | 0.158 U  | 0.316 U | 1,120        | 499           | 718     | 6.49    | 1.51     |         |         |     |
| 04/26/19                   | PES   | Bladder               | -          | -               | -   | 0.291 J  | 0.412 U | 0.158 U  | 0.316 U | 1,500        | 613           | 710     | 5.59    | 0.900 J  |         |         |     |
| MW114<br>(10.84 to 0.84)   | SDOT property south<br>of Roy Street  | 12/21/12              | SES        | Peristaltic     | -   | -        | -       | -        | -       | -            | -             | 1,400   | 290     | 260      | 1 U     | 14      |     |
|                            |   | 12/18/13<br>Destroyed | SES        | Peristaltic     | -   | -        | -       | 17 U     | 50 U    | 50 U         | 150 U         | 8,400   | 1,300   | 640      | 50 U    | 22      |     |
| MW115<br>(-0.86 to -10.86) | 9th Ave North ROW   | 12/13/12              | SES        | Peristaltic     | -   | -        | -       | -        | -       | -            | -             | 15      | 1.1     | 3.0      | 1 U     | 2.6     |     |
|                            |   | 12/21/12              | SES        | Peristaltic     | -   | -        | -       | -        | -       | -            | -             | 1 U     | 3.0     | 38       | 1 U     | 16      |     |
|                            |   | 12/19/13              | SES        | Peristaltic     | -   | -        | -       | 0.35 U   | 1 U     | 1 U          | 3 U           | 1 U     | 1 U     | 1 U      | 1 U     | 0.75    |     |
|                            |   | 04/21/15              | SES        | Peristaltic     | -   | -        | -       | -        | -       | -            | -             | 1 U     | 17      | 170      | 1 U     | 20      |     |
|                            |   | 06/25/15              | SES        | Peristaltic     | -   | -        | -       | -        | -       | -            | -             | 1 U     | 1 U     | 1 U      | 1 U     | 6.2     |     |
|                            |   | 10/27/15              | SES        | Peristaltic     | -   | -        | -       | -        | -       | -            | -             | 1 U     | 1 U     | 1 U      | 1 U     | 0.31    |     |
|                            |   | 02/03/16              | SES        | Peristaltic     | -   | -        | -       | -        | -       | -            | -             | 1 U     | 1 U     | 1 U      | 1 U     | 2.3     |     |
|                            |   | 03/22/17              | PES        | Peristaltic     | -   | -        | -       | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U | 0.153 U | 0.643    | 0.152 U | 15.7    |     |
|                            |   | 06/22/17              | PES        | Bladder         | -   | -        | -       | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U | 0.153 U | 0.523    | 0.152 U | 8.45    |     |
|                            |   | 04/11/18              | PES        | Peristaltic     | -   | -        | -       | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U | 0.153 U | 0.272 J  | 0.152 U | 5.81    |     |
| 01/30/19                   | PES   | Peristaltic           | -          | -               | -   | 0.0896 U | 0.412 U | 0.158 U  | 0.316 U | 0.199 U      | 0.153 U       | 0.316 J | 0.152 U | 12.4     |         |         |     |
| MW116<br>(-3.64 to -13.64) | 9th Ave North ROW   | 12/07/12              | SES        | Peristaltic     | -   | -        | -       | -        | -       | -            | -             | 6.8     | 1 U     | 1 U      | 1 U     | 0.2 U   |     |
|                            |   | 12/21/12              | SES        | Peristaltic     | -   | -        | -       | -        | -       | -            | -             | 2.7     | 1 U     | 1 U      | 1 U     | 0.2 U   |     |
|                            |   | 12/19/13              | SES        | Peristaltic     | -   | -        | -       | 0.35 U   | 1 U     | 1 U          | 3 U           | 1 U     | 1 U     | 1 U      | 1 U     | 0.2 U   |     |
|                            |   | 06/25/15              | SES        | Peristaltic     | -   | -        | -       | -        | -       | -            | -             | 1 U     | 1 U     | 1 U      | 1 U     | 0.2 U   |     |
|                            |   | 10/27/15              | SES        | Peristaltic     | -   | -        | -       | -        | -       | -            | -             | 1 U     | 1 U     | 1 U      | 1 U     | 0.2 U   |     |
|                            |   | 02/03/16              | SES        | Peristaltic     | -   | -        | -       | -        | -       | -            | -             | 1 U     | 1 U     | 1 U      | 1 U     | 0.2 U   |     |
|                            |   | 03/21/17              | PES        | Peristaltic     | -   | -        | -       | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U | 0.153 U | 0.0933 U | 0.152 U | 0.118 U |     |
|                            |   | 06/16/17              | PES        | Bladder         | -   | -        | -       | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U | 0.303 J | 0.0933 U | 0.152 U | 0.118 U |     |
|                            |   | 04/11/18              | PES        | Peristaltic     | -   | -        | -       | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U | 0.153 U | 0.0933 U | 0.152 U | 0.118 U |     |
| 01/30/19                   | PES   | Bladder               | -          | -               | -   | 0.0896 U | 0.412 U | 0.158 U  | 0.316 U | 0.199 U      | 0.153 U       | 0.655   | 0.152 U | 0.118 U  |         |         |     |
| MW117<br>(16.90 to 1.90)   | Dexter Ave North ROW  | 02/08/13              | SES        | Peristaltic     | -   | -        | -       | -        | -       | -            | -             | 1 U     | 1 U     | 1 U      | 1 U     | 0.2 U   |     |
|                            |   | 12/18/13<br>Destroyed | SES        | Peristaltic     | 100 U                                     | 50 U     | 250 U   | 0.35 U   | 1 U     | 1 U          | 3 U           | 1 U     | 1 U     | 1 U      | 1 U     | 0.2 U   |     |



Table 4

**Groundwater Analytical Data for Intermediate Water-Bearing Zone Wells  
Former Amereican Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

| Sample Location            | Area Location                        | Sample Date | Sampled By | Sampling Method | Analytical Results (micrograms per liter) |     |     |   |        |   |         |   |         |   |              |   |               |   |       |   |        |   |       |   |       |   |     |   |
|----------------------------|--------------------------------------|-------------|------------|-----------------|---|-----|-----|---|--------|---|---------|---|---------|---|--------------|---|---------------|---|-------|---|--------|---|-------|---|-------|---|-----|---|
|                            |                                      |             |            |                 | GRO                                       |     | DRO |   | ORO    |   | Benzene |   | Toluene |   | Ethylbenzene |   | Total Xylenes |   | PCE   |   | TCE    |   | cDCE  |   | tDCE  |   | VC  |   |
|                            |                                      |             |            |                 | 800                                       | U   | 500 | U | 500    | U | 0.5     | U | 72      | U | 29           | U | 10,000        | U | 2.4   | U | 1      | U | 16    | U | 100   | U | 0.2 | U |
| MW118<br>(12.91 to 2.91)   | Mercer St ROW                        | 03/25/13    | SES        | Peristaltic     | -   |     | -   |   | -      |   | -       |   | -       |   | 1            | U | 1             | U | 1     | U | 1      | U | 0.2   | U |       |   |     |   |
|                            |                                      | 12/18/13    | SES        | Peristaltic     | 100                                       | U   | 50  | U | 250    | U | 0.35    | U | 1       | U | 1            | U | 3             | U | 1     | U | 1      | U | 1     | U | 0.2   | U |     |   |
|                            |                                      | Destroyed   |            |                 |   |     |     |   |        |   |         |   |         |   |              |   |               |   |       |   |        |   |       |   |       |   |     |   |
| MW119<br>(2.35 to -7.65)   | 9th Ave North ROW                    | 03/25/13    | SES        | Peristaltic     | -   |     | -   |   | -      |   | -       |   | -       |   | 1            | U | 1             | U | 3.3   |   | 1      | U | 0.2   | U |       |   |     |   |
|                            |                                      | 12/19/13    | SES        | Peristaltic     | -   |     | -   |   | 0.35   | U | 1       | U | 1       | U | 3            | U | 1             | U | 1     | U | 2.5    |   | 1     | U | 0.76  |   |     |   |
|                            |                                      | 04/21/15    | SES        | Peristaltic     | -   |     | -   |   | -      |   | -       |   | -       |   | -            |   | 34            |   | 42    |   | 50     |   | 1     | U | 3.1   |   |     |   |
|                            |                                      | 06/17/15    | SES        | Peristaltic     | -   |     | -   |   | -      |   | -       |   | -       |   | -            |   | 4.9           |   | 7.1   |   | 52     |   | 1     | U | 2.7   |   |     |   |
|                            |                                      | 10/20/15    | SES        | Peristaltic     | -   |     | -   |   | -      |   | -       |   | -       |   | -            |   | 15            |   | 22    |   | 74     |   | 1     | U | 0.45  |   |     |   |
|                            |                                      | 02/02/16    | SES        | Peristaltic     | -   |     | -   |   | -      |   | -       |   | -       |   | -            |   | 7.3           |   | 24    |   | 100    |   | 1     | U | 0.45  |   |     |   |
|                            |                                      | 03/29/17    | PES        | Peristaltic     | -   |     | -   |   | 0.139  |   | 0.412   | U | 0.158   | U | 0.316        | U | 5.47          |   | 10.7  |   | 42.9   |   | 0.334 | J | 0.272 | J |     |   |
|                            |                                      | 06/28/17    | PES        | Bladder         | -   |     | -   |   | 0.0896 | U | 0.726   |   | 0.158   | U | 0.562        | J | 19.0          |   | 12.4  |   | 5.99   |   | 0.167 | J | 0.118 | U |     |   |
|                            |                                      | 04/05/18    | PES        | Peristaltic     | -   |     | -   |   | 0.0896 | U | 0.412   | U | 0.158   | U | 0.316        | U | 2.14          |   | 3.02  |   | 18.3   |   | 0.203 | J | 0.118 | U |     |   |
|                            |                                      | 01/21/19    | PES        | Peristaltic     | -   |     | -   |   | 0.0896 | U | 0.412   | U | 0.158   | U | 0.316        | U | 1.24          |   | 0.153 | U | 0.0933 | U | 0.152 | U | 0.118 | U |     |   |
|                            |                                      | 04/29/19    | PES        | Peristaltic     | -   |     | -   |   | 0.0896 | U | 0.412   | U | 0.158   | U | 0.316        | U | 0.224         | J | 1.12  |   | 10.9   |   | 0.161 | J | 0.118 | U |     |   |
| MW120<br>(0 to -10)        | 8th Ave North ROW                    | 12/19/13    | SES        | Peristaltic     | 100                                       | U   | 50  | U | 440    | x | 0.35    | U | 1       | U | 1            | U | 3             | U | 2.8   |   | 2.3    |   | 19    |   | 1     | U | 9.6 |   |
|                            |                                      | 06/16/15    | SES        | Peristaltic     | -   |     | -   |   | -      |   | -       |   | -       |   | -            |   | 1             | U | 1     | U | 4.3    |   | 1     | U | 0.2   | U |     |   |
|                            |                                      | 10/20/15    | SES        | Peristaltic     | -   |     | -   |   | -      |   | -       |   | -       |   | -            |   | 1             | U | 1.1   |   | 5.2    |   | 1     | U | 0.94  |   |     |   |
|                            |                                      | 02/01/16    | SES        | Peristaltic     | -   |     | -   |   | -      |   | -       |   | -       |   | -            |   | 1.3           |   | 1.6   |   | 6.7    |   | 1     | U | 1.1   |   |     |   |
|                            |                                      | 03/28/17    | PES        | Peristaltic     | -   |     | -   |   | 0.0896 | U | 0.458   | U | 0.158   | U | 0.316        | U | 13.9          |   | 5.81  |   | 18.4   |   | 0.152 | U | 0.871 |   |     |   |
|                            |                                      | 06/28/17    | PES        | Bladder         | -   |     | -   |   | 0.0896 | U | 0.412   | U | 0.158   | U | 0.316        | U | 18.0          |   | 6.97  |   | 16.0   |   | 0.152 | U | 0.988 |   |     |   |
|                            |                                      | 04/09/18    | PES        | Peristaltic     | 31.6                                      | U   | -   |   | 0.0896 | U | 0.412   | U | 0.158   | U | 0.316        | U | 0.199         |   | 0.153 | U | 0.811  |   | 0.152 | U | 0.118 | U |     |   |
|                            |                                      | 01/24/19    | PES        | Peristaltic     | 105                                       | J+z | -   |   | 0.0896 | U | 0.412   | U | 0.158   | U | 0.316        | U | 125           |   | 34.3  |   | 60.5   |   | 0.194 | J | 1.64  |   |     |   |
|                            |                                      | 05/03/19    | PES        | Peristaltic     | 111                                       | J+  | -   |   | 0.0896 | U | 0.412   | U | 0.158   | U | 0.316        | U | 155           |   | 46.9  |   | 87.2   |   | 0.258 | J | 1.28  |   |     |   |
| (duplicate)                |                                      | 05/03/19    | PES        | Peristaltic     | 138                                       | J+  | -   |   | 0.0896 | U | 0.412   | U | 0.316   | U | 182          |   | 51.1          |   | 89.0  |   | 0.227  | J | 1.30  |   |       |   |     |   |
| MW127<br>(-0.96 to -10.96) | 8th Ave North ROW                    | 01/03/14    | SES        | Peristaltic     | -   |     | -   |   | 0.35   | U | 1       | U | 1       | U | 3            | U | 1             | U | 1     | U | 1      | U | 1     | U | 0.29  |   |     |   |
|                            |                                      | 01/13/14    | SES        | Peristaltic     | -   |     | -   |   | 0.35   | U | 1       | U | 1       | U | 3            | U | 1             | U | 1     | U | 1      | U | 1     | U | 0.30  |   |     |   |
| MW-142<br>(2.44 to -7.56)  | 8th Ave North ROW<br><br>(duplicate) | 04/27/18    | PES        | Peristaltic     | 49.3                                      | U   | -   |   | 0.514  |   | 0.412   | U | 0.158   | U | 0.316        | U | 0.523         |   | 1.40  |   | 46.1   |   | 0.474 | J | 17.2  |   |     |   |
|                            |                                      | 01/28/19    | PES        | Peristaltic     | 31.6                                      | U   | -   |   | 0.442  | J | 0.412   | U | 0.158   | U | 0.316        | U | 0.199         | U | 0.153 | U | 5.62   |   | 0.152 | U | 3.45  |   |     |   |
|                            |                                      | 01/28/19    | PES        | Peristaltic     | 31.6                                      | U   | -   |   | 0.410  | J | 0.412   | U | 0.158   | U | 0.316        | U | 0.199         | U | 0.208 | J | 5.67   |   | 0.152 | U | 3.38  |   |     |   |
|                            |                                      | 04/24/19    | PES        | Peristaltic     | 31.6                                      | U   | -   |   | 0.361  | J | 0.412   | U | 0.158   | U | 0.316        | U | 0.199         | U | 0.156 | J | 5.67   |   | 0.152 | U | 4.39  | J |     |   |
| MW-144<br>(3.87 to -6.13)  | 8th Ave North ROW                    | 04/27/18    | PES        | Peristaltic     | 364                                       | J   | -   |   | 0.0896 | U | 1.40    |   | 0.158   | U | 0.316        | U | 1.86          |   | 3.31  |   | 662    |   | 4.65  |   | 888   |   |     |   |
|                            |                                      | 01/28/19    | PES        | Peristaltic     | 31.6                                      | U   | -   |   | 0.0896 | U | 0.412   | U | 0.158   | U | 0.316        | U | 0.199         | U | 0.251 | J | 10.4   |   | 0.489 | J | 40.4  |   |     |   |
|                            |                                      | 04/23/19    | PES        | Peristaltic     | 31.6                                      | U   | -   |   | 0.0896 | U | 0.412   | U | 0.158   | U | 0.316        | U | 0.199         | U | 0.158 | J | 4.09   |   | 0.472 | J | 7.30  | J |     |   |
| MW-146<br>(12.94 to 2.94)  | 8th Ave North ROW                    | 04/30/18    | PES        | Bladder         | 597                                       |     | -   |   | 0.0896 | U | 0.412   | U | 0.158   | U | 0.316        | U | 3.56          |   | 48.4  |   | 900    |   | 6.12  |   | 2,100 |   |     |   |
|                            |                                      | 01/22/19    | PES        | Peristaltic     | 509                                       | J+z | -   |   | 0.0896 | U | 0.412   | U | 0.158   | U | 0.316        | U | 2.29          |   | 21.6  |   | 1,080  |   | 7.25  |   | 1,370 |   |     |   |

Table 4

**Groundwater Analytical Data for Intermediate Water-Bearing Zone Wells  
Former Amereican Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

| Sample Location                                       | Area Location                        | Sample Date | Sampled By | Sampling Method | Analytical Results (micrograms per liter) |     |     |          |         |              |               |          |         |          |         |        |  |
|---|--------------------------------------|-------------|------------|-----------------|---|-----|-----|----------|---------|--------------|---------------|----------|---------|----------|---------|--------|--|
|   |                                      |             |            |                 | GRO                                       | DRO | ORO | Benzene  | Toluene | Ethylbenzene | Total Xylenes | PCE      | TCE     | cDCE     | tDCE    | VC     |  |
| Screening Level                                       |                                      |             |            |                 | 800                                       | 500 | 500 | 0.5      | 72      | 29           | 10,000        | 2.4      | 1       | 16       | 100     | 0.2    |  |
| MW-156<br>(2.04 to -7.96)                             | 8th Ave North ROW<br><br>(duplicate) | 04/26/18    | PES        | Peristaltic     | 1,690 z                                   | -   | -   | 0.283 J  | 0.479 J | 0.158 U      | 0.316 U       | 9.95 U   | 581     | 2,850    | 9.97    | 407    |  |
|   |                                      | 01/24/19    | PES        | Peristalti      | 1,480 J+z                                 | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 1,720    | 723     | 2,050    | 11.5    | 11.8 U |  |
|   |                                      | 04/24/19    | PES        | Peristaltic     | 2,570 J+                                  | -   | -   | 0.339 J  | 0.412 U | 0.158 U      | 0.316 U       | 1,430    | 727     | 1,770    | 9.41    | 3.21 J |  |
|   |                                      | 04/24/19    | PES        | Peristaltic     | 2,600 J+                                  | -   | -   | 0.33 J   | 0.412 U | 0.158 U      | 0.316 U       | 1,440    | 717     | 1,760    | 9.31    | 3.34 J |  |
| <b>Intermediate B Water-Bearing Zone, On Property</b> |                                      |             |            |                 |   |     |     |          |         |              |               |          |         |          |         |        |  |
| MW130<br>(-30.88 to -40.88)                           | Property<br><br>(duplicate)          | 03/03/16    | SES        | Bladder         | -   | -   | -   | -        | -       | -            | -             | 6,200    | 430     | 300      | 1 U     | 38     |  |
|   |                                      | 03/29/17    | PES        | Bladder         | 8,890 xy                                  | -   | -   | 1.79 U   | 8.24 U  | 3.16 U       | 6.32 U        | 721      | 830     | 7,880    | 39.3    | 186    |  |
|   |                                      | 06/30/17    | PES        | Bladder         | 10,300 Jz                                 | -   | -   | 0.896 U  | 4.12 U  | 1.58 U       | 3.16 U        | 6,760 J  | 4,020   | 20,100   | 55.6    | 597    |  |
|   |                                      | 06/30/17    | PES        | Bladder         | 15,000 Jz                                 | -   | -   | 0.896 U  | 4.12 U  | 1.58 U       | 3.16 U        | 11,100 J | 5,310   | 21,300   | 57.3    | 549    |  |
|   |                                      | 05/21/18    | PES        | Bladder         | 19,700 z                                  | -   | -   | 0.403 J  | 1.37    | 0.227 J      | 1.12 J        | 13,500   | 7,400   | 29,500   | 114     | 1,650  |  |
|   |                                      | 12/17/18    | PES        | Bladder         | 16,400                                    | -   | -   | 4.48 U   | 20.6 U  | 7.90 U       | 15.8 U        | 9,650    | 3,220   | 26,400   | 83.5    | 1,420  |  |
|   |                                      | 01/31/19    | PES        | Bladder         | 22,400 J+z                                | -   | -   | 0.377 J  | 1.51 J+ | 0.279 J      | 1.22 J        | 23,700   | 4,640   | 27,700   | 107     | 1,740  |  |
| Decommissioned March 2019                             |                                      |             |            |                 |   |     |     |          |         |              |               |          |         |          |         |        |  |
| MW-132<br>(-29.90 to -39.90)                          | Property                             | 09/25/17    | PES        | Bladder         | 95.9 U                                    | -   | -   | 0.448 U  | 2.06 U  | 0.790 U      | 1.58 U        | 0.995 U  | 1.95 J  | 196      | 0.760 U | 1.76 J |  |
|   |                                      | 04/26/18    | PES        | Bladder         | 2,630 z                                   | -   | -   | 0.422 J  | 0.412 U | 0.158 U      | 0.32 U        | 2,830    | 840     | 3,300    | 16.3    | 10.2   |  |
|   |                                      | 10/25/18    | PES        | Peristaltic     | 48.3 U                                    | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 3.53     | 0.750   | 12.1     | 0.254 J | 158    |  |
|   |                                      | 12/13/18    | PES        | Peristaltic     | 31.6 U                                    | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.995 U  | 0.765 U | 39.8     | 0.497 J | 199    |  |
|   |                                      | 1/31/19     | PES        | Peristaltic     | 104 J+z                                   | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 22.9     | 1.95    | 108      | 0.506   | 269    |  |
|   |                                      | 3/11/19     | PES        | Peristaltic     | 31.6 U                                    | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 7.03     | 1.22    | 22.8     | 0.302 J | 57.3   |  |
| Decommissioned March 2019                             |                                      |             |            |                 |   |     |     |          |         |              |               |          |         |          |         |        |  |
| MW-134<br>(-38.55 to -48.55)                          | Property                             | 09/22/17    | PES        | Bladder         | -   | -   | -   | 0.448 U  | 2.06 U  | 0.790 U      | 1.58 U        | 0.995 U  | 0.765 U | 86.2     | 0.760 U | 229    |  |
|   |                                      | 04/16/18    | PES        | Peristaltic     | 42.1 U                                    | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 1.49     | 0.153 U | 0.287 J  | 0.152 U | 68.6   |  |
|   |                                      | 10/25/18    | PES        | Bladder         | 38.2 U                                    | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U | 0.0933 U | 0.152 U | 20.9   |  |
|   |                                      | 12/12/18    | PES        | Bladder         | 31.6 U                                    | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U | 0.259 J  | 0.152 U | 21.9   |  |
|   |                                      | 01/28/19    | PES        | Bladder         | 31.6 U                                    | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U | 0.609    | 0.152 U | 32.4   |  |
|   |                                      | 03/12/19    | PES        | Bladder         | 31.6 U                                    | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U | 0.550    | 0.152 U | 17.7   |  |
| Decommissioned March 2019                             |                                      |             |            |                 |   |     |     |          |         |              |               |          |         |          |         |        |  |
| MW-135<br>(-30.89 to -40.89)                          | Property                             | 09/25/17    | PES        | Bladder         | 10,900 z                                  | -   | -   | 8.96 U   | 41.2 U  | 15.8 U       | 31.6 U        | 10,400   | 2,480   | 16,100   | 15.2 U  | 82.0 J |  |
|   |                                      | 04/25/18    | PES        | Peristaltic     | 347,000 z                                 | -   | -   | 0.434 J  | 3.09    | 0.484 J      | 2.61          | 75,800   | 7,890   | 27,700   | 30.7    | 989    |  |
|   |                                      | 10/25/18    | PES        | Peristaltic     | 31,800                                    | -   | -   | 2.24 U   | 10.3 U  | 3.95 U       | 7.90 U        | 45,900   | 8,330   | 40,400   | 54.4    | 1,170  |  |
|   |                                      | 12/13/18    | PES        | Peristaltic     | 80,000                                    | -   | -   | 4.48 U   | 20.6 U  | 7.90 U       | 15.8 U        | 97,200   | 11,000  | 42,100   | 66.6    | 1,380  |  |
|   |                                      | 01/31/19    | PES        | Bladder         | 42,700 J+z                                | -   | -   | 0.695 J  | 5.12 J+ | 0.571 J      | 3.43 J        | 56,500   | 9,530   | 37,400   | 68.6    | 1,090  |  |
|   |                                      | 03/13/19    | PES        | Bladder         | 32,700 J+                                 | -   | -   | 0.496 J  | 2.43    | 0.329 J      | 1.90          | 57,300   | 8,150   | 37,200   | 74.3    | 706    |  |
| Decommissioned March 2019                             |                                      |             |            |                 |   |     |     |          |         |              |               |          |         |          |         |        |  |

Table 4

**Groundwater Analytical Data for Intermediate Water-Bearing Zone Wells  
Former Amereican Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

| Sample Location  | Area Location          | Sample Date | Sampled By | Sampling Method | Analytical Results (micrograms per liter) |        |       |          |          |              |               |           |          |           |         |          |         |
|--|------------------------|-------------|------------|-----------------|---|--------|-------|----------|----------|--------------|---------------|-----------|----------|-----------|---------|----------|---------|
|  |                        |             |            |                 | GRO                                       | DRO    | ORO   | Benzene  | Toluene  | Ethylbenzene | Total Xylenes | PCE       | TCE      | cDCE      | tDCE    | VC       |         |
| Screening Level  |                        |             |            |                 | 800                                       | 500    | 500   | 0.5      | 72       | 29           | 10,000        | 2.4       | 1        | 16        | 100     | 0.2      |         |
| MW-136<br>(-32.73 to -42.73)                           | Property               | 09/25/17    | PES        | Bladder         | 55.2 U                                    | -      | -     | 0.332 J  | 0.412 U  | 0.158 U      | 0.316 U       | 15.4      | 10.7     | 18.7      | 0.152 U | 0.118 U  |         |
|  |                        | 04/16/18    | PES        | Submersible     | 256                                       | -      | -     | 0.260 J  | 1.83     | 4.83         | 25.9          | 2.59      | 0.365 J  | 4.73      | 0.152 U | 8.57     |         |
|  |                        | 10/29/18    | PES        | Bladder         | 31.9 U                                    | -      | -     | 0.0896 U | 0.412 U  | 0.158 U      | 0.316 U       | 0.199 U   | 0.177 J  | 1.44      | 0.152 U | 0.236 J  |         |
|  | (duplicate)            | (duplicate) | 12/13/18   | PES             | Bladder                                   | 31.6 U | -     | -        | 0.0896 U | 0.412 U      | 0.158 U       | 0.316 U   | 0.199 U  | 0.237 J   | 0.962   | 0.152 U  | 0.118 U |
|  |                        |             | 02/01/19   | PES             | Bladder                                   | 44.5 U | -     | -        | 0.0896 U | 0.412 U      | 0.158 U       | 0.316 U   | 1.26     | 0.293 U   | 0.851   | 0.152 U  | 0.186 J |
|  |                        |             | 03/12/19   | PES             | Peristaltic                               | 31.6 U | -     | -        | 0.0896 U | 0.412 U      | 0.158 U       | 0.316 U   | 0.206 J  | 0.153 U   | 0.330 J | 0.152 U  | 0.118 U |
|  |                        |             | 03/12/19   | PES             | Peristaltic                               | 31.6 U | -     | -        | 0.0896 U | 0.412 U      | 0.158 U       | 0.316 U   | 0.262 J  | 0.153 U   | 0.378 J | 0.152 U  | 0.118 U |
| Decommissioned March 2019                              |                        |             |            |                 |   |        |       |          |          |              |               |           |          |           |         |          |         |
| MW-139<br>(-30.19 to -40.19)                           | Property               | 09/25/17    | PES        | Bladder         | 62.2 U                                    | -      | -     | 0.0896 U | 0.516    | 0.158 U      | 0.316 U       | 0.199 U   | 0.153 U  | 1.42      | 0.152 U | 0.246 J  |         |
|  |                        | 04/25/18    | PES        | Peristaltic     | 31.6 U                                    | -      | -     | 0.0896 U | 0.412 U  | 0.158 U      | 0.316 U       | 0.199 U   | 0.153 U  | 0.175 J   | 0.152 U | 0.118 U  |         |
|  |                        | 10/25/18    | PES        | Peristaltic     | 47.4 U                                    | -      | -     | 0.0896 U | 0.412 U  | 0.158 U      | 0.316 U       | 1.29      | 0.282 J  | 0.454 U   | 0.152 U | 0.118 U  |         |
|  |                        | 12/12/18    | PES        | Peristaltic     | 31.6 U                                    | -      | -     | 0.0896 U | 0.412 U  | 0.158 U      | 0.316 U       | 0.199 U   | 0.153 U  | 0.216 J   | 0.152 U | 0.118 U  |         |
|  |                        | 01/28/19    | PES        | Peristaltic     | 31.6 U                                    | -      | -     | 0.0896 U | 0.412 U  | 0.158 U      | 0.316 U       | 0.199 U   | 0.153 U  | 0.0933 U  | 0.152 U | 0.118 U  |         |
|  |                        | 03/11/19    | PES        | Peristaltic     | 31.6 U                                    | -      | -     | 0.0896 U | 0.412 U  | 0.158 U      | 0.316 U       | 0.199 U   | 0.153 U  | 0.187 J   | 0.152 U | 5.77     |         |
| Decommissioned March 2019                              |                        |             |            |                 |   |        |       |          |          |              |               |           |          |           |         |          |         |
| MW-150<br>(-13.25 to -23.25)                           | Property               | 04/10/18    | PES        | Peristaltic     | 7,040 z                                   | -      | -     | 22.4 U   | 1.63     | 39.5 U       | 79.0 U        | 2,500     | 3,200    | 9,710     | 21.1    | 766      |         |
|  |                        | 10/25/18    | PES        | Peristaltic     | 14,600                                    | -      | -     | 0.413 J  | 2.53     | 0.226 J      | 1.13 J        | 15,200    | 8,800    | 17,700    | 49.7    | 1,430    |         |
|  |                        | 12/12/18    | PES        | Peristaltic     | 17,500                                    | -      | -     | 0.429 J  | 1.04     | 0.158 U      | 0.316 U       | 75.6      | 533      | 32,800    | 242     | 2,040    |         |
|  |                        | 01/29/19    | PES        | Peristaltic     | 11,900 J+z                                | -      | -     | 8.96 U   | 41.2 U   | 15.8 U       | 31.6 U        | 303       | 548      | 18,100    | 36.7 J  | 1,370    |         |
|  |                        | 03/13/19    | PES        | Peristaltic     | 7,540 J+                                  | -      | -     | 0.165 J  | 0.412 U  | 0.185 J      | 0.316 U       | 36.0      | 262      | 15,000    | 50.5    | 479      |         |
| Decommissioned March 2019                              |                        |             |            |                 |   |        |       |          |          |              |               |           |          |           |         |          |         |
| MW-152<br>(-10.15 to -20.15)                           | Property               | 04/10/18    | PES        | Peristaltic     | 40,600 z                                  | -      | -     | 224 U    | 8.24 U   | 3.27 J       | 790 U         | 67,300    | 6,550    | 35,300    | 42.1    | 3,660    |         |
|  |                        | 10/26/18    | PES        | Peristaltic     | 36,700                                    | -      | -     | 4.48 U   | 20.6 U   | 7.90 U       | 15.8 U        | 1,960     | 3,150    | 73,000    | 109     | 4,510    |         |
|  |                        | 12/14/18    | PES        | Peristaltic     | 47,300                                    | -      | -     | 2.24 U   | 10.3 U   | 3.95 U       | 7.90 U        | 23,600 J+ | 6,870 J+ | 77,100 J+ | 134 J+  | 7,830 J+ |         |
|  |                        | 01/31/19    | PES        | Peristaltic     | 44,300 J+z                                | -      | -     | 0.416 J  | 2.61 J+  | 0.342 J      | 2.10          | 38,300    | 3,920    | 58,400    | 101     | 9,600    |         |
|  |                        | 03/12/19    | PES        | Peristaltic     | 55,900 J+                                 | -      | -     | 2.24 U   | 10.3 U   | 3.95 U       | 7.90 U        | 398 U     | 18,700   | 127,000   | 781     | 11,000   |         |
| Decommissioned March 2019                              |                        |             |            |                 |   |        |       |          |          |              |               |           |          |           |         |          |         |
| W-MW-03<br>(-30.77 to -40.77)                          | Property               | 02/03/12    | WW         | Bladder         | -   | -      | -     | 20 U     | 20 U     | 20 U         | 60 U          | 5,300     | 220      | 160       | 20 U    | 20 U     |         |
|  |                        | 09/06/12    | SES        | Peristaltic     | -   | -      | -     | 0.35 U   | 1 U      | 1 U          | 3 U           | 13        | 2.6      | 20        | 1 U     | 120      |         |
| Decommissioned   |                        |             |            |                 |   |        |       |          |          |              |               |           |          |           |         |          |         |
| W-MW-04*<br>(-32.47 to -41.47)                         | Property               | 02/03/12    | WW         | Bladder         | -   | -      | -     | 20 U     | 20 U     | 20 U         | 60 U          | 5,400     | 160      | 54        | 20 U    | 20 U     |         |
|  |                        | 09/06/12    | SES        | Peristaltic     | -   | -      | -     | 0.35 U   | 1 U      | 1 U          | 3 U           | 460       | 440      | 1,900     | 4.0     | 630      |         |
| Decommissioned   |                        |             |            |                 |   |        |       |          |          |              |               |           |          |           |         |          |         |
| <b>Intermediate B Water-Bearing Zone, Off Property</b> |                        |             |            |                 |   |        |       |          |          |              |               |           |          |           |         |          |         |
| BB-10  | Dexter Ave North ROW   | 11/13/97    | B&V        | Bailer          | 250 U                                     | 630 U  | 630 U | ND       | ND       | ND           | ND            | ND        | ND       | ND        | ND      | ND       |         |
| BB-13  | Westlake Ave North ROW | 1998        | B&V        | Bailer          | 250 U                                     | 630 U  | 630 U | ND       | ND       | ND           | ND            | ND        | ND       | 2.6       | ND      | 1.1      |         |
|  |                        | 05/02/10    | SES        | Peristaltic     | -   | -      | -     | -        | -        | -            | -             | 1 U       | 1 U      | 1 U       | 1 U     | 0.2 U    |         |
| Decommissioned   |                        |             |            |                 |   |        |       |          |          |              |               |           |          |           |         |          |         |
| BB-14  | North Valley St ROW    | 1998        | B&V        | Bailer          | 300 U                                     | 630 U  | 630 U | -        | -        | -            | -             | -         | -        | -         | -       | -        |         |
| Decommissioned   |                        |             |            |                 |   |        |       |          |          |              |               |           |          |           |         |          |         |

Table 4

**Groundwater Analytical Data for Intermediate Water-Bearing Zone Wells  
Former Amereican Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

| Sample Location              | Area Location                       | Sample Date | Sampled By | Sampling Method | Analytical Results (micrograms per liter) |        |     |        |        |       |         |       |         |       |              |       |               |        |       |        |        |       |       |       |       |    |    |  |
|------------------------------|-------------------------------------|-------------|------------|-----------------|---|--------|-----|--------|--------|-------|---------|-------|---------|-------|--------------|-------|---------------|--------|-------|--------|--------|-------|-------|-------|-------|----|----|--|
|                              |                                     |             |            |                 | GRO                                       |        | DRO |        | ORO    |       | Benzene |       | Toluene |       | Ethylbenzene |       | Total Xylenes |        | PCE   |        | TCE    |       | cDCE  |       | tDCE  |    | VC |  |
|                              |                                     |             |            |                 | 800                                       | 500    | 500 | 0.5    | 72     | 29    | 10,000  | 2.4   | 1       | 16    | 100          | 0.2   |               |        |       |        |        |       |       |       |       |    |    |  |
| MW111<br>(-33.52 to -43.52)  | Alley Between 8th and 9th Ave North | 12/21/12    | SES        | Bladder         | -   | -      | -   | -      | -      | -     | -       | -     | 110     | 32    | 37           | 1     | U             | 1.8    |       |        |        |       |       |       |       |    |    |  |
|                              |                                     | 12/17/13    | SES        | Peristaltic     | -   | -      | -   | 0.35   | U      | 1     | U       | 1     | U       | 3     | U            | 1     | U             | 1      | U     | 4.7    | 1      | U     | 17    |       |       |    |    |  |
|                              |                                     | 04/22/15    | SES        | Peristaltic     | -   | -      | -   | -      | -      | -     | -       | -     | -       | 1     | U            | 1     | U             | 1.7    | 1     | U      | 18     |       |       |       |       |    |    |  |
|                              |                                     | 06/17/15    | SES        | Peristaltic     | -   | -      | -   | -      | -      | -     | -       | -     | -       | 1     | U            | 1     | U             | 1.5    | 1     | U      | 20     |       |       |       |       |    |    |  |
|                              |                                     | 10/20/15    | SES        | Peristaltic     | -   | -      | -   | -      | -      | -     | -       | -     | -       | 1     | U            | 1     | U             | 1      | U     | 8.2    |        |       |       |       |       |    |    |  |
|                              |                                     | 02/02/16    | SES        | Peristaltic     | -   | -      | -   | -      | -      | -     | -       | -     | -       | 1     | U            | 1     | U             | 2.3    | 1     | U      | 5.8    |       |       |       |       |    |    |  |
|                              |                                     | 03/23/17    | PES        | Peristaltic     | -   | -      | -   | 0.0896 | U      | 0.412 | U       | 0.158 | U       | 0.316 | U            | 0.199 | U             | 0.153  | U     | 1.40   | 0.152  | U     | 5.22  |       |       |    |    |  |
|                              |                                     | 06/14/17    | PES        | Bladder         | -   | -      | -   | 0.0896 | U      | 0.412 | U       | 0.158 | U       | 0.316 | U            | 0.199 | U             | 0.408  | J     | 1.24   | 0.152  | U     | 3.22  |       |       |    |    |  |
|                              |                                     | 04/06/18    | PES        | Peristaltic     | -   | -      | -   | 0.0896 | U      | 0.412 | U       | 0.158 | U       | 0.316 | U            | 0.618 | 0.153         | U      | 16.5  | 0.152  | U      | 121   |       |       |       |    |    |  |
|                              |                                     | 01/23/19    | PES        | Peristaltic     | -   | -      | -   | 0.0896 | U      | 0.412 | U       | 0.158 | U       | 0.316 | U            | 0.492 | J             | 0.176  | J     | 1.70   | 0.152  | U     | 37.6  |       |       |    |    |  |
|                              |                                     | 04/22/19    | PES        | Peristaltic     | -   | -      | -   | 0.0896 | U      | 0.412 | U       | 0.158 | U       | 0.316 | U            | 0.199 | U             | 0.153  | U     | 3.18   | 0.152  | U     | 19.5  | J     |       |    |    |  |
| MW112<br>(-17.51 to -27.51)  | Dexter Ave North ROW                | 12/21/12    | SES        | Bladder         | -   | -      | -   | -      | -      | -     | -       | -     | 1       | U     | 1            | U     | 1             | U      | 1     | U      | 1      | U     | 0.2   | U     |       |    |    |  |
|                              |                                     | 12/26/13    | SES        | Bladder         | -   | -      | -   | 0.35   | U      | 1     | U       | 1     | U       | 3     | U            | 1     | U             | 1      | U     | 1      | U      | 1     | U     | 0.2   | U     |    |    |  |
|                              |                                     | 03/22/17    | PES        | Bladder         | -   | -      | -   | 0.0896 | U      | 0.412 | U       | 0.158 | U       | 0.316 | U            | 0.199 | U             | 0.153  | U     | 0.0933 | U      | 0.152 | U     | 0.118 | U     |    |    |  |
|                              |                                     | 06/16/17    | PES        | Bladder         | -   | -      | -   | 0.0896 | U      | 0.412 | U       | 0.158 | U       | 0.316 | U            | 0.199 | U             | 0.153  | U     | 0.0933 | U      | 0.152 | U     | 0.118 | U     |    |    |  |
|                              |                                     | 04/12/18    | PES        | Bladder         | 31.6                                      | U      | -   | -      | 0.0896 | U     | 0.412   | U     | 0.158   | U     | 0.316        | U     | 0.199         | U      | 0.153 | U      | 0.0933 | U     | 0.152 | U     | 0.118 | U  |    |  |
|                              |                                     | 12/21/18    | PES        | Bladder         | 31.6                                      | U      | -   | -      | 0.0896 | U     | 0.412   | U     | 0.158   | U     | 0.316        | U     | 0.199         | U      | 0.153 | U      | 0.0933 | U     | 0.152 | U     | 0.118 | U  |    |  |
|                              |                                     | 04/22/19    | PES        | Bladder         | 31.6                                      | U      | -   | -      | 0.0896 | U     | 0.412   | U     | 0.158   | U     | 0.316        | U     | 0.199         | U      | 0.153 | U      | 0.0933 | U     | 0.152 | U     | 0.118 | UJ |    |  |
| MW126<br>(-54.06 to -64.06)  | Alley Between 8th and 9th Ave North | 01/03/14    | SES        | Peristaltic     | -   | -      | -   | 0.35   | U      | 1     | U       | 1     | U       | 3     | U            | 1     | U             | 1      | U     | 1      | U      | 1     | U     | 0.2   | U     |    |    |  |
|                              |                                     | 03/28/17    | PES        | Peristaltic     | -   | -      | -   | 0.148  | J      | 0.563 | U       | 0.158 | U       | 0.316 | U            | 0.199 | U             | 0.153  | U     | 0.283  | J      | 0.152 | U     | 0.118 | U     |    |    |  |
|                              |                                     | 06/15/17    | PES        | Bladder         | -   | -      | -   | 0.0896 | U      | 0.412 | U       | 0.179 | J       | 0.316 | U            | 0.199 | U             | 0.153  | U     | 0.0933 | U      | 0.152 | U     | 0.118 | U     |    |    |  |
|                              |                                     | 04/06/18    | PES        | Peristaltic     | -   | -      | -   | 0.0896 | U      | 0.412 | U       | 0.158 | U       | 0.316 | U            | 0.199 | U             | 0.153  | U     | 0.0933 | U      | 0.152 | U     | 0.118 | U     |    |    |  |
|                              |                                     | 01/22/19    | PES        | Peristaltic     | -   | -      | -   | 0.0896 | U      | 0.412 | U       | 0.158 | U       | 0.316 | U            | 0.199 | U             | 0.153  | U     | 0.0933 | U      | 0.152 | U     | 0.118 | U     |    |    |  |
| 04/29/19                     | PES                                 | Peristaltic | -          | -               | -   | 0.0896 | U   | 0.412  | U      | 0.158 | U       | 0.316 | U       | 0.199 | U            | 0.153 | U             | 0.0933 | U     | 0.152  | U      | 0.118 | UJ    |       |       |    |    |  |
| MW-143<br>(-27.67 to -37.57) | 8th Ave North ROW                   | 04/30/18    | PES        | Peristaltic     | 154                                       | -      | -   | 0.244  | J      | 0.797 | 0.212   | J     | 1.08    | J     | 0.199        | U     | 0.153         | U      | 129   | 0.512  | 193    |       |       |       |       |    |    |  |
|                              |                                     | 01/29/19    | PES        | Bladder         | 31.6                                      | U      | -   | -      | 0.141  | J     | 0.412   | U     | 0.158   | U     | 0.316        | U     | 0.199         | U      | 0.153 | U      | 0.241  | J     | 0.152 | U     | 0.118 | U  |    |  |
|                              |                                     | 04/24/19    | PES        | Peristaltic     | 31.6                                      | U      | -   | -      | 0.0896 | U     | 0.412   | U     | 0.158   | U     | 0.316        | U     | 0.199         | U      | 0.153 | U      | 0.0933 | U     | 0.152 | U     | 0.118 | UJ |    |  |
| MW-145<br>(-26.14 to -36.14) | 8th Ave North ROW                   | 04/27/18    | PES        | Bladder         | 52.6                                      | U      | -   | -      | 0.0896 | U     | 0.412   | U     | 0.158   | U     | 0.316        | U     | 0.199         | U      | 0.212 | J      | 2.29   | 0.152 | U     | 3.88  |       |    |    |  |
|                              |                                     | 01/29/19    | PES        | Bladder         | 31.6                                      | U      | -   | -      | 0.0896 | U     | 0.412   | U     | 0.158   | U     | 0.316        | U     | 0.199         | U      | 0.153 | U      | 0.316  | J     | 0.152 | U     | 0.335 | J  |    |  |
|                              |                                     | 04/26/19    | PES        | Bladder         | 31.6                                      | U      | -   | -      | 0.0896 | U     | 0.412   | U     | 0.158   | U     | 0.316        | U     | 0.199         | U      | 0.153 | U      | 0.0933 | U     | 0.152 | U     | 0.392 | J  |    |  |
| MW-147<br>(-17.64 to -27.64) | Roy St ROW                          | 05/01/18    | PES        | Bladder         | 484                                       | -      | -   | 0.0896 | U      | 0.412 | U       | 0.158 | U       | 0.316 | U            | 19.8  | 83.4          | 399    | 2.09  | 1,150  |        |       |       |       |       |    |    |  |
|                              |                                     | 01/22/19    | PES        | Bladder         | 663                                       | J      | -   | -      | 0.0896 | U     | 0.412   | U     | 0.158   | U     | 0.316        | U     | 98.2          | 179    | 1,230 | 2.88   | 738    |       |       |       |       |    |    |  |
|                              |                                     | 04/23/19    | PES        | Bladder         | 139                                       | J+     | -   | -      | 0.0896 | U     | 0.412   | U     | 0.158   | U     | 0.316        | UJ    | 0.199         | U      | 5.13  | 322    | 1.47   | 499   |       |       |       |    |    |  |
| MW-148<br>(-25.73 to -35.73) | Roy St ROW<br>(duplicate)           | 05/01/18    | PES        | Bladder         | 31.6                                      | U      | -   | -      | 0.0896 | U     | 0.412   | U     | 0.158   | U     | 0.316        | U     | 0.199         | U      | 0.153 | U      | 0.0933 | U     | 0.152 | U     | 0.118 | U  |    |  |
|                              |                                     | 05/01/18    | PES        | Bladder         | 31.6                                      | U      | -   | -      | 0.0896 | U     | 0.412   | U     | 0.158   | U     | 0.316        | U     | 0.199         | U      | 0.153 | U      | 0.216  | J     | 0.152 | U     | 0.118 | U  |    |  |
|                              |                                     | 01/23/19    | PES        | Bladder         | 31.6                                      | U      | -   | -      | 0.0896 | U     | 0.412   | U     | 0.158   | U     | 0.316        | U     | 1.24          | 0.347  | J     | 0.0933 | U      | 0.152 | U     | 0.118 | U     |    |    |  |
|                              |                                     | 04/26/19    | PES        | Bladder         | 31.6                                      | U      | -   | -      | 0.0896 | U     | 0.412   | U     | 0.158   | U     | 0.316        | U     | 0.199         | U      | 0.153 | U      | 0.0933 | U     | 0.152 | U     | 0.277 | J  |    |  |

Table 4

**Groundwater Analytical Data for Intermediate Water-Bearing Zone Wells  
Former Amereican Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

| Sample Location               | Area Location       | Sample Date                    | Sampled By | Sampling Method | Analytical Results (micrograms per liter) |       |       |          |         |              |               |         |         |         |         |        |  |  |
|-------------------------------|---------------------|--------------------------------|------------|-----------------|---|-------|-------|----------|---------|--------------|---------------|---------|---------|---------|---------|--------|--|--|
|                               |                     |                                |            |                 | GRO                                       | DRO   | ORO   | Benzene  | Toluene | Ethylbenzene | Total Xylenes | PCE     | TCE     | cDCE    | tDCE    | VC     |  |  |
| Screening Level               |                     |                                |            |                 | 800                                       | 500   | 500   | 0.5      | 72      | 29           | 10,000        | 2.4     | 1       | 16      | 100     | 0.2    |  |  |
| MW-157<br>(-28.29 to -38.19)  | 8th Ave North ROW   | 04/26/18                       | PES        | Peristaltic     | 65.7 J                                    | -     | -     | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.950   | 0.240 J | 10.4    | 0.246 J | 104    |  |  |
|                               |                     | 01/24/19                       | PES        | Peristaltic     | 1,870 J+z                                 | -     | -     | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U | 1.65    | 4,250   | 14.2    | 674    |  |  |
|                               |                     | 04/24/19                       | PES        | Peristaltic     | 3,210 J+                                  | -     | -     | 0.254 J  | 0.412 U | 0.158 U      | 0.316 U       | 9.95 U  | 8.52 J  | 3,550   | 15.9    | 622    |  |  |
| PW-1                          | North Valley St ROW | 1997 (8 hour)                  | B&V        | Bailer          | 250 U                                     | 630 U | 630 U | ND       | ND      | ND           | ND            | 1.0     | ND      | ND      | ND      | ND     |  |  |
|                               |                     | 1997 (Final)<br>Decommissioned | B&V        | Bailer          | 250 U                                     | 630 U | 630 U | ND       | ND      | ND           | ND            | ND      | ND      | ND      | ND      | ND     |  |  |
| W-MW-01<br>(-25.12 to -35.12) | 8th Ave North ROW   | 02/02/12                       | WW         | Bladder         | -   | -     | -     | 20 U     | 0.1 J   | 0.2 U        | 0.6 U         | 46      | 3.9     | 11      | 0.2 U   | 0.5    |  |  |
|                               |                     | 09/06/12                       | SES        | Peristaltic     | -   | -     | -     | 0.35 U   | 1.7     | 1 U          | 3 U           | 1 U     | 1 U     | 2.0     | 1 U     | 2.8    |  |  |
|                               |                     | 06/17/15                       | SES        | Peristaltic     | -   | -     | -     | -        | -       | -            | -             | 1 U     | 1 U     | 1 U     | 1 U     | 0.46   |  |  |
|                               |                     | 10/20/15                       | SES        | Peristaltic     | -   | -     | -     | -        | -       | -            | -             | 1 U     | 1 U     | 1 U     | 1 U     | 0.88   |  |  |
|                               |                     | 01/08/16                       | SES        | Peristaltic     | -   | -     | -     | -        | -       | -            | -             | 1 U     | 1 U     | 1 U     | 1 U     | 2.5    |  |  |
|                               |                     | 02/01/16                       | SES        | Peristaltic     | -   | -     | -     | -        | -       | -            | -             | 1 U     | 1 U     | 1 U     | 1 U     | 2.8    |  |  |
|                               |                     | 03/30/17                       | PES        | Peristaltic     | -   | -     | -     | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.330 J | 0.203 J | 0.491 J | 0.152 U | 1.83 J |  |  |
|                               |                     | 06/19/17                       | PES        | Bladder         | -   | -     | -     | 0.158 J  | 0.931   | 0.158 U      | 0.316 U       | 0.199 U | 0.153 U | 0.320 J | 0.152 U | 1.09   |  |  |
|                               |                     | 04/13/18                       | PES        | Bladder         | 37.6 U                                    | -     | -     | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 5.33    | 1.68    | 1.31    | 0.152 U | 8.79   |  |  |
|                               |                     | 10/29/18                       | PES        | Bladder         | 31.6 U                                    | -     | -     | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.22 J  | 0.696   | 0.629   | 0.152 U | 3.9    |  |  |
|                               |                     | 12/13/18                       | PES        | Bladder         | 31.6 U                                    | -     | -     | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U | 1.77    | 0.538   | 0.152 U | 3.86   |  |  |
|                               |                     | 01/25/19                       | PES        | Bladder         | 31.6 U                                    | -     | -     | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U | 0.587   | 0.459 J | 0.152 U | 5.46   |  |  |
|                               |                     | 03/11/19                       | PES        | Bladder         | 31.6 U                                    | -     | -     | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.520   | 0.301 J | 0.396 J | 0.152 U | 7.24   |  |  |
|                               |                     | 04/25/19                       | PES        | Bladder         | 31.6 U                                    | -     | -     | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U | 0.373 J | 0.572   | 0.152 U | 6.61 J |  |  |

Table 4

**Groundwater Analytical Data for Intermediate Water-Bearing Zone Wells  
Former Amereican Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

| Sample Location               | Area Location     | Sample Date | Sampled By | Sampling Method | Analytical Results (micrograms per liter) |      |       |          |         |              |               |         |         |           |         |          |
|-------------------------------|-------------------|-------------|------------|-----------------|---|------|-------|----------|---------|--------------|---------------|---------|---------|-----------|---------|----------|
|                               |                   |             |            |                 | GRO                                       | DRO  | ORO   | Benzene  | Toluene | Ethylbenzene | Total Xylenes | PCE     | TCE     | cDCE      | tDCE    | VC       |
| Screening Level               |                   |             |            |                 | 800                                       | 500  | 500   | 0.5      | 72      | 29           | 10,000        | 2.4     | 1       | 16        | 100     | 0.2      |
| W-MW-02<br>(-26.54 to -36.54) | 8th Ave North ROW | 02/03/12    | WW         | Bladder         | -   | -    | -     | 20 U     | 20 U    | 20 U         | 60 U          | 6,900   | 1,700   | 2,000     | 20 U    | 120      |
|                               |                   | 08/13/12    | SES        | Peristaltic     | -   | -    | -     | -        | -       | -            | -             | 3,000   | 1,300   | 2,200     | 4.1     | 66       |
|                               |                   | 09/05/12    | SES        | Peristaltic     | -   | -    | -     | 0.35 U   | 1.4     | 1 U          | 3 U           | 2,600   | 1,300   | 2,800     | 5.0     | 69       |
|                               |                   | 01/03/14    | SES        | Peristaltic     | -   | -    | -     | 0.35 U   | 1 U     | 1 U          | 3 U           | 490     | 1,200   | 4,400     | 7.3     | 67       |
|                               |                   | 06/17/15    | SES        | Peristaltic     | -   | -    | -     | -        | -       | -            | -             | 10 U    | 10 U    | 13,000    | 95      | 2,400    |
|                               |                   | 10/20/15    | SES        | Peristaltic     | -   | -    | -     | -        | -       | -            | -             | 5 Uht   | 5 Uht   | 12,000 ht | 97 ht   | 1,700 ht |
|                               |                   | 11/10/15    | SES        | Peristaltic     | -   | -    | -     | -        | -       | -            | -             | 1 U     | 3.4     | 480       | 3.6     | 110      |
|                               |                   | 12/11/15    | SES        | Peristaltic     | -   | -    | -     | -        | -       | -            | -             | 1 U     | 4.9     | 900       | 6.2     | 2,900    |
|                               |                   | 01/08/16    | SES        | Peristaltic     | -   | -    | -     | -        | -       | -            | -             | 1 U     | 3.1     | 750       | 26      | 7,500    |
|                               |                   | 02/01/16    | SES        | Peristaltic     | -   | -    | -     | -        | -       | -            | -             | 1 U     | 4.6     | 2,900     | 35      | 2,800    |
|                               |                   | 03/27/17    | PES        | Peristaltic     | -   | -    | -     | 0.270 J  | 0.961 J | 0.158 U      | 0.316 U       | 0.199 U | 0.259 J | 33.0      | 2.16    | 36.4     |
|                               |                   | 06/19/17    | PES        | Bladder         | -   | -    | -     | 0.307 J  | 0.970   | 0.158 U      | 0.316 U       | 0.199 U | 0.153 U | 18.2      | 0.746   | 25.6     |
|                               |                   | 06/12/18    | PES        | Bladder         | 32 U                                      | -    | -     | 0.0896 U | 0.829   | 0.158 U      | 0.316 U       | 0.199 U | 0.153 U | 4.72      | 0.279 J | 4.95     |
|                               |                   | 10/26/18    | PES        | Peristaltic     | 90.2 UJ                                   | -    | -     | 0.0896 U | 0.641   | 0.158 U      | 0.316 U       | 0.199 U | 0.153 U | 2.01      | 0.410 J | 1.41     |
|                               |                   | 10/26/18    | PES        | Peristaltic     | 246 J+                                    | -    | -     | 0.0896 U | 0.587   | 0.158 U      | 0.316 U       | 0.199 U | 0.153 U | 2.11 J+   | 0.435 J | 1.8      |
|                               |                   | 12/12/18    | PES        | Peristaltic     | 158 UJ                                    | -    | -     | 0.0896 U | 1.05    | 0.158 U      | 0.316 U       | 0.199 U | 0.153 U | 1.80      | 0.463 J | 2.30     |
|                               |                   | 01/25/19    | PES        | Peristaltic     | 37.4 J                                    | -    | -     | 0.133 J  | 2.09    | 0.158 U      | 0.316 U       | 0.199 U | 0.153 U | 1.83      | 0.263 J | 2.01     |
|                               |                   | 03/11/19    | PES        | Peristaltic     | 31.6 U                                    | -    | -     | 0.0896 U | 1.12    | 0.158 U      | 0.316 U       | 0.199 U | 0.153 U | 2.41      | 0.316 J | 2.43     |
|                               |                   | 04/23/19    | PES        | Peristaltic     | 429 J+                                    | -    | -     | 0.0896 U | 0.56    | 0.158 U      | 0.316 U       | 0.199 U | 40.1    | 672       | 2.35    | 81.0 J   |
| Number of Analytes Measured   |                   |             |            |                 | 135                                       | 20   | 20    | 219      | 219     | 216          | 219           | 285     | 285     | 285       | 284     | 285      |
| Number of Analytes Detected   |                   |             |            |                 | 36  | 0    | 0     | 47       | 42      | 16           | 13            | 155     | 180     | 226       | 124     | 217      |
| Frequency of Detection        |                   |             |            |                 | 27%                                       | 0%   | 0%    | 21%      | 19%     | 7%           | 6%            | 54%     | 63%     | 79%       | 44%     | 76%      |
| Maximum Detection             |                   |             |            |                 | 80,000                                    | -    | -     | 14.1     | 17.6 E  | 28.6         | 55.1          | 220,000 | 18,700  | 127,000   | 781     | 11,000   |
| Minimum Detection             |                   |             |            |                 | 28.9                                      | 50 U | 100 U | 0.0896 U | 0.1 J   | 0.158 U      | 0.316 U       | 0.199 U | 0.153 U | 0.0933 U  | 0.152 U | 0.118 U  |

**Notes:**  
 Petroleum Hydrocarbons analyzed by EPA Method 418.1 or 8015-M, NWTPH-HCID, or NWTPH-Gx/NWTPH-Dx.  
 VOCs analyzed by EPA Methods 8015, 8020, 8021B, 8240, 8260B, or 8260C OR by Purge and Trap Gas Chromatogram/Mass Spectrometry or EPA Method 601, 8010S, 8240, 8260B, or 8260C.  
 \* Monitoring well was installed at a 25 degree angle from the vertical point of penetration.  
 (dup) = duplicate  
 B&V = Black & Veatch  
 cDCE = cis-1,2-dichloroethene  
 DOF = Dalton, Olmsted & Fuglevand, Inc.  
 DRO = diesel-range organics  
 E = Estimated value. The reported range exceeds the calibration range of the analysis.  
 Geo = GeoEngineers Inc.  
 GRO = gasoline-range organics  
 ORO = oil-range organics  
 PCE = perchloroethylene (tetrachloroethene)  
 ROW = right-of-way  
 SES = SES Strategies, Inc.

TCE = trichloroethene  
 tDCE = trans-1,2-dichloroethene  
 VC = vinyl chloride  
 WW = Windward  
 - = not analyzed  
 Detected results shown in bold, detections above the screening level (see Table 3) highlighted in gray  
 f = Analyte was detected in the associated method blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.  
 ht = The analysis was performed outside the method the method or client-specified holding time requirement.  
 J = Estimated concentration.  
 ND = not detected at a concentration exceeding laboratory reporting limit; detection limit not provided  
 pr = The sample was received with incorrect preservation. The value reported should be considered an estimate.  
 U = not detected at or above the laboratory method detection limit (MDL); detections above the screening level highlighted in gray  
 x = The sample chromatographic pattern does not resemble the fuel standard used for quantitation.  
 y = The GRO result in the sample is due to a pattern of peaks that is consistent with the chlorinated volatiles detected by the 8260C analysis.  
 z = No/low level gasoline/petroleum detection; result is likely elevated due to high detections of CVOCs.

Table 5

Groundwater Analytical Data for Deep Water-Bearing Zone Wells  
700 Dexter Avenue North, Seattle, Washington

| Sample Location             | Area Location                    | Sample Date | Sampled By | Sampling Method | Analytical Results (micrograms per liter) |     |     |          |         |              |               |          |         |          |         |         |       |
|-----------------------------|----------------------------------|-------------|------------|-----------------|---|-----|-----|----------|---------|--------------|---------------|----------|---------|----------|---------|---------|-------|
|                             |                                  |             |            |                 | GRO                                       | DRO | ORO | Benzene  | Toluene | Ethylbenzene | Total Xylenes | PCE      | TCE     | cDCE     | tDCE    | VC      |       |
| Screening Level             |                                  |             |            |                 | 800                                       | 500 | 500 | 0.5      | 72      | 29           | 10,000        | 2.4      | 1       | 16       | 100     | 0.2     |       |
| <b>On Property</b>          |                                  |             |            |                 |   |     |     |          |         |              |               |          |         |          |         |         |       |
| MW101<br>(-65.51 to -75.51) | Property                         | 07/20/12    | SES        | Bladder         | -   | -   | -   | -        | -       | -            | -             | -        | 1 U     | 1 U      | 1 U     | 1 U     | 0.2 U |
|                             |                                  | 09/06/12    | SES        | Peristaltic     | -   | -   | -   | 0.35 U   | 1.4     | 1 U          | 3 U           | 1 U      | 1 U     | 1 U      | 1 U     | 1 U     | 0.2 U |
| Decommissioned              |                                  |             |            |                 |   |     |     |          |         |              |               |          |         |          |         |         |       |
| MW-133                      | Property                         | 09/25/17    | PES        | Bladder         | 41.2 U                                    | -   | -   | 0.0896 U | 0.748   | 0.158 U      | 0.316 U       | 12.7     | 16.2    | 13.3     | 1.13    | 0.239 J |       |
|                             |                                  | 04/25/18    | PES        | Bladder         | 31.6 U                                    | -   | -   | 0.0896 U | 0.837   | 0.158 U      | 0.316 U       | 0.646    | 0.516   | 10.7     | 0.315 J | 3.51    |       |
|                             |                                  | 10/26/18    | PES        | Bladder         | 458                                       | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 1.92 J+  | 1.63 J+ | 7.94     | 0.257 J | 3.43    |       |
|                             |                                  | 12/12/18    | PES        | Bladder         | 31.6 U                                    | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 1.71     | 2.75    | 7.88     | 0.454 J | 5.95    |       |
|                             |                                  | 02/01/19    | PES        | Bladder         | 46.4 U                                    | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 22.4     | 9.29    | 12.4     | 0.588   | 4.36    |       |
|                             |                                  | 03/13/19    | PES        | Bladder         | 31.6 U                                    | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 4.45     | 5.92    | 7.48     | 0.483 J | 10.8    |       |
| Decommissioned March 2019   |                                  |             |            |                 |   |     |     |          |         |              |               |          |         |          |         |         |       |
| MW-137                      | Property                         | 09/25/17    | PES        | Bladder         | 58.5 U                                    | -   | -   | 0.0896 U | 3.90    | 0.158 U      | 0.316 U       | 15.0     | 19.1    | 62.0     | 0.152 U | 0.118 U |       |
|                             |                                  | 04/12/18    | PES        | Bladder         | 31.6 U                                    | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U | 1.79     | 0.152 U | 4.26    |       |
|                             |                                  | 10/26/18    | PES        | Bladder         | 86.9 U                                    | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.896 J+ | 0.463 U | 0.893 J+ | 0.152 U | 0.118 U |       |
|                             |                                  | 12/12/18    | PES        | Bladder         | 31.6 U                                    | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U | 0.437 J  | 0.152 U | 0.357 J |       |
|                             |                                  | 02/01/19    | PES        | Bladder         | 58.4 U                                    | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 1.48     | 0.153 U | 0.616    | 0.152 U | 0.365 J |       |
|                             |                                  | 03/11/19    | PES        | Bladder         | 31.6 U                                    | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.344 J  | 0.153 U | 0.275 J  | 0.152 U | 0.179 J |       |
| Decommissioned March 2019   |                                  |             |            |                 |   |     |     |          |         |              |               |          |         |          |         |         |       |
| MW-141                      | Property                         | 09/22/17    | PES        | Bladder         | -   | -   | -   | 0.0896 U | 0.941   | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U | 0.345 J  | 0.152 U | 0.457 J |       |
|                             |                                  | 04/12/18    | PES        | Submersible     | 326                                       | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 71.3 J+  | 25.6 J+ | 91.6 J+  | 5.68 J+ | 7.01 J+ |       |
|                             |                                  | 10/25/18    | PES        | Bladder         | 31.6 U                                    | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U | 3.10     | 0.152 U | 0.118 U |       |
|                             |                                  | 12/12/18    | PES        | Bladder         | 31.6 U                                    | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U | 1.46     | 0.152 U | 0.520   |       |
|                             |                                  | 01/30/19    | PES        | Bladder         | 31.6 U                                    | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U | 0.479 J  | 0.152 U | 0.118 U |       |
|                             |                                  | 03/11/19    | PES        | Bladder         | 31.6 U                                    | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.701    | 0.153 U | 1.30     | 0.152 U | 0.557   |       |
| Decommissioned March 2019   |                                  |             |            |                 |   |     |     |          |         |              |               |          |         |          |         |         |       |
| MW-162                      | Property                         | 02/05/19    | PES        | Bladder         | -   | -   | -   | 1.00 U   | 1.00 U  | 1.00 U       | 1.00 U        | 2,800    | 613     | 1,070    | 9.58    | 128     |       |
|                             |                                  | 03/12/19    | PES        | Peristaltic     | 690 J+                                    | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 613      | 538     | 758      | 2.63    | 46.5    |       |
| Decommissioned March 2019   |                                  |             |            |                 |   |     |     |          |         |              |               |          |         |          |         |         |       |
| MW-163<br>(duplicate)       | Property                         | 02/05/19    | PES        | Bladder         | -   | -   | -   | 1.00 U   | 1.00 U  | 1.00 U       | 1.00 U        | 218      | 150     | 42.2     | 1.00 U  | 2.95    |       |
|                             |                                  | 02/05/19    | PES        | Bladder         | -   | -   | -   | 1.00 U   | 1.00 U  | 1.00 U       | 1.00 U        | 220      | 153     | 40.3     | 1.00 U  | 3.45    |       |
|                             |                                  | 03/12/19    | PES        | Bladder         | 319 J+                                    | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 282      | 334     | 56.9     | 2.87    | 1.10    |       |
| Decommissioned March 2019   |                                  |             |            |                 |   |     |     |          |         |              |               |          |         |          |         |         |       |
| MW-164                      | Property                         | 02/05/19    | PES        | Bladder         | -   | -   | -   | 1.00 U   | 1.80    | 1.00 U       | 1.00 U        | 871      | 372     | 385      | 3.41    | 4.41    |       |
|                             |                                  | 03/12/19    | PES        | Bladder         | 565 J+                                    | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 444      | 327     | 529      | 4.24    | 7.80    |       |
| Decommissioned March 2019   |                                  |             |            |                 |   |     |     |          |         |              |               |          |         |          |         |         |       |
| <b>Off Property</b>         |                                  |             |            |                 |   |     |     |          |         |              |               |          |         |          |         |         |       |
| FMW-129<br>(-45 to -50)     | SDOT Property<br>South of Roy St | 05/23/14    | Farallon   | Unknown         | -   | -   | -   | -        | -       | -            | -             | 0.40     | 0.57    | 17       | ND      | 7.6     |       |
|                             |                                  | 10/20/15    | SES        | Peristaltic     | -   | -   | -   | -        | -       | -            | -             | 25       | 39      | 250      | 1 U     | 0.2 U   |       |
|                             |                                  | 02/02/16    | SES        | Peristaltic     | -   | -   | -   | -        | -       | -            | -             | 13       | 61      | 240      | 1 U     | 0.330   |       |
|                             |                                  | 04/10/17    | PES        | Peristaltic     | -   | -   | -   | 0.448 U  | 2.06 U  | 0.790 U      | 1.58 U        | 194      | 492     | 1,420    | 5.05    | 0.885 J |       |
|                             |                                  | 06/23/17    | PES        | Bladder         | -   | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 81.1     | 182     | 474      | 1.21    | 0.413   |       |
|                             |                                  | 05/01/19    | PES        | Peristaltic     | -   | -   | -   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 101      | 166     | 372      | 1.22    | 0.590 U |       |

Table 5

Groundwater Analytical Data for Deep Water-Bearing Zone Wells  
700 Dexter Avenue North, Seattle, Washington

| Sample Location                            | Area Location                  | Sample Date | Sampled By | Sampling Method | Analytical Results (micrograms per liter) |   |     |          |          |         |              |               |         |          |         |         |       |
|--|--------------------------------|-------------|------------|-----------------|---|---|-----|----------|----------|---------|--------------|---------------|---------|----------|---------|---------|-------|
|  |                                |             |            |                 | GRO                                       |   | DRO | ORO      | Benzene  | Toluene | Ethylbenzene | Total Xylenes | PCE     | TCE      | cDCE    | tDCE    | VC    |
|  |                                |             |            |                 | 800                                       |   | 500 | 500      | 0.5      | 72      | 29           | 10,000        | 2.4     | 1        | 16      | 100     | 0.2   |
| FMW-131<br>(-34.65 to -44.65)              | Block 37                       | 09/02/16    | Farallon   | Unknown         | -   | - | -   | -        | -        | -       | -            | -             | 0.20 U  | 0.20 U   | 41      | 0.20 U  | 1.7   |
|  |                                | 03/24/17    | PES        | Peristaltic     | -   | - | -   | 0.0896 U | 0.412 U  | 0.158 U | 0.316 U      | 0.199 U       | 0.153 U | 45.6     | 0.152 U | 0.249 J |       |
|  |                                | 06/23/17    | PES        | Bladder         | -   | - | -   | 0.0896 U | 0.412 U  | 0.158 U | 0.316 U      | 0.199 U       | 0.153 U | 3.61     | 0.152 U | 0.264 J |       |
|  |                                | 12/18/17    | Farallon   | Unknown         | -   | - | -   | -        | -        | -       | -            | 0.20 U        | 0.20 U  | 0.61     | 0.20 U  | 0.20 U  |       |
|  |                                | 04/22/19    | PES        | Peristaltic     | -   | - | -   | 0.0896 U | 0.412 U  | 0.158 U | 0.316 U      | 0.199 U       | 0.153 U | 10.8     | 0.152 U | 0.195 J |       |
| FMW-3D                                     | Block 31                       | 03/24/17    | PES        | Peristaltic     | -   | - | -   | 0.0896 U | 0.412 U  | 0.158 U | 0.316 U      | 0.199 U       | 0.153 U | 0.0933 U | 0.152 U | 0.118 U |       |
|  |                                | 06/23/17    | PES        | Bladder         | -   | - | -   | 0.0896 U | 0.412 U  | 0.158 U | 0.316 U      | 0.199 U       | 0.153 U | 0.0933 U | 0.152 U | 0.118 U |       |
| GEI-2<br>(-21.12 to -31.12)                | Block 37                       | 03/24/17    | PES        | Peristaltic     | -   | - | -   | 0.0896 U | 0.412 U  | 0.158 U | 0.316 U      | 0.199 U       | 0.153 U | 2.25     | 0.152 U | 6.94    |       |
|  |                                | 06/23/17    | PES        | Bladder         | -   | - | -   | 0.0896 U | 0.412 U  | 0.158 U | 0.316 U      | 0.199 U       | 0.153 U | 16.3     | 0.152 U | 127     |       |
|  |                                | 04/22/19    | PES        | Peristaltic     | -   | - | -   | 1.05     | 0.412 U  | 0.158 U | 0.316 U      | 0.199 U       | 0.153 U | 11.5     | 0.152 U | 57.7 J  |       |
| MW102<br>(-65.81 to -75.81)                | Valley St ROW                  | 08/16/12    | SES        | Peristaltic     | -   | - | -   | -        | -        | -       | -            | -             | 1 U     | 1 U      | 1 U     | 1 U     | 0.2 U |
|  |                                | 09/05/12    | SES        | Bladder         | -   | - | -   | 0.35 U   | 1 U      | 1 U     | 3 U          | 1 U           | 1 U     | 1 U      | 1 U     | 1 U     | 0.2 U |
|  |                                | 12/17/13    | SES        | Bladder         | -   | - | -   | 0.35 U   | 1 U      | 1 U     | 3 U          | 1 U           | 1 U     | 1 U      | 1 U     | 1 U     | 0.2 U |
|  |                                | 10/27/15    | SES        | Bladder         | -   | - | -   | -        | -        | -       | -            | 1 U           | 1 U     | 1 U      | 1 U     | 1 U     | 0.2 U |
|  |                                | 02/02/16    | SES        | Bladder         | -   | - | -   | -        | -        | -       | -            | 1 U           | 1 U     | 1 U      | 1 U     | 1 U     | 0.2 U |
|  |                                | 03/29/17    | PES        | Bladder         | -   | - | -   | 0.0896 U | 0.412 U  | 0.158 U | 0.316 U      | 0.199 U       | 0.153 U | 0.223 J  | 0.152 U | 0.118 U |       |
|  |                                | 06/15/17    | PES        | Bladder         | -   | - | -   | 0.0896 U | 0.412 U  | 0.158 U | 0.316 U      | 0.199 U       | 0.153 U | 0.0933 U | 0.152 U | 0.118 U |       |
|  |                                | 04/25/18    | PES        | Bladder         | 31.6 U                                    | - | -   | 0.0896 U | 0.412 U  | 0.158 U | 0.316 U      | 0.352 J       | 0.153 U | 0.0933 U | 0.152 U | 0.118 U |       |
|  |                                | 01/24/19    | PES        | Bladder         | 31.6 U                                    | - | -   | 0.0896 U | 0.412 U  | 0.158 U | 0.316 U      | 0.22 J        | 0.153 U | 0.0933 U | 0.152 U | 0.118 U |       |
|  |                                | 05/01/19    | PES        | Bladder         | 31.6 U                                    | - | -   | 0.0896 U | 0.412 U  | 0.158 U | 0.316 U      | 0.199 U       | 0.153 U | 0.0933 U | 0.152 U | 0.118 U |       |
| MW103<br>(-67.58 to -77.58)<br>(duplicate) | Alley East of<br>8th Ave North | 07/31/12    | SES        | Peristaltic     | -   | - | -   | -        | -        | -       | -            | -             | 12      | 25       | 150     | 10 U    | 79    |
|  |                                | 09/05/12    | SES        | Peristaltic     | -   | - | -   | 0.35 U   | 1.6      | 1 U     | 3 U          | 8.3           | 22      | 80       | 1 U     | 110     |       |
|  |                                | 09/05/12    | SES        | Peristaltic     | -   | - | -   | 0.35 U   | 1.6      | 1 U     | 3 U          | 8.1           | 22      | 85       | 1 U     | 120     |       |
|  |                                | 12/18/13    | SES        | Peristaltic     | -   | - | -   | 0.35 U   | 2.4      | 1 U     | 3 U          | 4.3           | 6.1     | 8.6      | 1 U     | 1.2     |       |
|  |                                | 12/18/13    | SES        | Peristaltic     | -   | - | -   | 0.35 U   | 2.4      | 1 U     | 3 U          | 4.0           | 5.2     | 7.1      | 1 U     | 0.94    |       |
|  |                                | 06/17/15    | SES        | Peristaltic     | -   | - | -   | -        | -        | -       | -            | 1.8           | 1.4     | 1 U      | 1 U     | 0.94    |       |
|  |                                | 10/20/15    | SES        | Peristaltic     | -   | - | -   | -        | -        | -       | -            | 3.6           | 1.4     | 1 U      | 1 U     | 1.6     |       |
|  |                                | 02/02/16    | SES        | Peristaltic     | -   | - | -   | -        | -        | -       | -            | 1.0           | 1 U     | 1.2      | 1 U     | 0.53    |       |
|  |                                | 03/29/17    | PES        | Peristaltic     | -   | - | -   | 0.0896 U | 0.464 J  | 0.158 U | 0.316 U      | 1.99 U        | 23.1    | 240      | 0.405 J | 157     |       |
|  |                                | 06/14/17    | PES        | Peristaltic     | -   | - | -   | 0.0896 U | 0.412 U  | 0.158 U | 0.316 U      | 0.626         | 23.0    | 120      | 0.369 J | 69.2    |       |
|  |                                | 04/06/18    | PES        | Peristaltic     | -   | - | -   | 0.0896 U | 0.412 U  | 0.158 U | 0.316 U      | 0.199 U       | 1.81    | 32.4     | 0.152 U | 22.4    |       |
|  |                                | 01/23/19    | PES        | Peristaltic     | -   | - | -   | 0.0896 U | 1.35     | 0.158 U | 0.316 U      | 0.365 J       | 1.48    | 11.4     | 0.152 U | 6.68    |       |
|  |                                | 04/22/19    | PES        | Peristaltic     | -   | - | -   | 0.0896 U | 0.412 U  | 0.158 U | 0.316 U      | 0.199 U       | 3.09    | 88.0     | 0.209 J | 32.3 J  |       |
| MW104<br>(-76.32 to -86.32)                | 8th Ave North ROW              | 08/16/12    | SES        | Peristaltic     | -   | - | -   | -        | -        | -       | -            | -             | 1 U     | 1 U      | 1 U     | 1 U     | 0.2 U |
|  |                                | 09/06/12    | SES        | Bladder         | -   | - | -   | 0.35 U   | 1 U      | 1 U     | 3 U          | 1 U           | 1 U     | 1 U      | 1 U     | 1 U     | 0.2 U |
|  |                                | 12/17/13    | SES        | Bladder         | -   | - | -   | 0.35 U   | 1 U      | 1 U     | 3 U          | 1 U           | 1 U     | 1 U      | 1 U     | 1 U     | 0.2 U |
|  |                                | 10/27/15    | SES        | Peristaltic     | -   | - | -   | -        | -        | -       | -            | 2.6           | 4.4     | 4.3      | 1 U     | 0.2 U   |       |
|  |                                | 02/02/16    | SES        | Bladder         | -   | - | -   | -        | -        | -       | -            | 1 U           | 1.2     | 19       | 1 U     | 0.2 U   |       |
|  |                                | 03/30/17    | PES        | Bladder         | -   | - | -   | 0.0896 U | 0.412 U  | 0.158 U | 0.316 U      | 0.199 U       | 0.153 U | 3.97     | 0.152 U | 0.118 U |       |
|  |                                | 06/30/17    | PES        | Bladder         | -   | - | -   | 0.387 J  | 0.903    | 0.158 U | 0.396 J      | 5.83          | 5.21    | 1.54     | 0.152 U | 0.118 U |       |
|  |                                | 04/09/18    | PES        | Peristaltic     | 81.3 J                                    | - | -   | 0.0896 U | 0.412 U  | 0.158 U | 0.316 U      | 0.541         | 2.00    | 176      | 1.02    | 32.3    |       |
|  |                                | 10/26/18    | PES        | Bladder         | 1,570                                     | - | -   | 0.0896 U | 0.618 J+ | 0.158 U | 0.316 U      | 1.87 J+       | 2.94 J+ | 71.2     | 0.257 J | 43.5    |       |
|  |                                | 02/01/19    | PES        | Bladder         | 191 J+z                                   | - | -   | 0.0896 U | 0.412 U  | 0.158 U | 0.316 U      | 12.1          | 3.22    | 30.6     | 0.326 J | 32.4    |       |
|  |                                | 03/13/19    | PES        | Bladder         | 124 J+                                    | - | -   | 0.0896 U | 0.455 J  | 0.158 U | 0.316 U      | 31.6          | 75.7    | 83.0     | 1.93    | 25.9    |       |
|  |                                | 04/23/19    | PES        | Bladder         | 174 J+                                    | - | -   | 0.0896 U | 0.412 U  | 0.158 U | 0.316 U      | 15.9          | 56.9    | 162      | 2.49    | 21.1 J  |       |



Table 5

Groundwater Analytical Data for Deep Water-Bearing Zone Wells  
700 Dexter Avenue North, Seattle, Washington

| Sample Location                            | Area Location                    | Sample Date | Sampled By | Sampling Method | Analytical Results (micrograms per liter) |     |        |        |         |       |         |       |              |        |               |       |       |       |       |        |        |       |       |       |       |
|--|----------------------------------|-------------|------------|-----------------|---|-----|--------|--------|---------|-------|---------|-------|--------------|--------|---------------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|
|  |                                  |             |            |                 | GRO                                       |     | DRO    | ORO    | Benzene |       | Toluene |       | Ethylbenzene |        | Total Xylenes |       | PCE   | TCE   | cDCE  | tDCE   | VC     |       |       |       |       |
| Screening Level                            |                                  |             |            |                 | 800                                       | 500 | 500    | 0.5    |         | 72    |         | 29    |              | 10,000 |               | 2.4   | 1     | 16    | 100   | 0.2    |        |       |       |       |       |
| MW105<br>(-85.83 to -95.83)                | Roy Street ROW                   | 08/16/12    | SES        | Peristaltic     | -   | -   | -      | -      | -       | -     | -       | -     | -            | 1      | U             | 1     | U     | 1     | U     | 1      | U      | 0.32  |       |       |       |
|  |                                  | 09/05/12    | SES        | Peristaltic     | -   | -   | -      | 0.35   | U       | 1     | U       | 1     | U            | 3      | U             | 1     | U     | 1     | U     | 1      | U      | 1     | U     | 0.23  |       |
|  |                                  | 12/29/13    | SES        | Bladder         | -   | -   | -      | 0.35   | U       | 1     | U       | 1     | U            | 3      | U             | 1     | U     | 1     | U     | 1      | U      | 1     | U     | 0.2   |       |
|  |                                  | 04/12/15    | SES        | Peristaltic     | -   | -   | -      | -      | -       | -     | -       | -     | -            | -      | 1.2           | -     | 1.6   | -     | 1     | U      | 1      | U     | 0.2   |       |       |
|  |                                  | 06/17/15    | SES        | Peristaltic     | -   | -   | -      | -      | -       | -     | -       | -     | -            | -      | 1             | U     | 1     | U     | 1     | U      | 1      | U     | 0.2   |       |       |
|  |                                  | 10/27/15    | SES        | Bladder         | -   | -   | -      | -      | -       | -     | -       | -     | -            | -      | 1             | U     | 1     | U     | 1     | U      | 1      | U     | 0.2   |       |       |
|  |                                  | 02/03/16    | SES        | Bladder         | -   | -   | -      | -      | -       | -     | -       | -     | -            | -      | 1             | U     | 1     | U     | 1     | U      | 1      | U     | 1.6   |       |       |
|  |                                  | 04/21/17    | PES        | Bladder         | -   | -   | -      | 0.0896 | U       | 0.544 | J       | 0.158 | U            | 0.316  | U             | 0.199 | U     | 0.153 | U     | 0.155  | J      | 0.152 | U     | 1.95  |       |
|  |                                  | 06/14/17    | PES        | Bladder         | -   | -   | -      | 0.0896 | U       | 0.412 | U       | 0.158 | U            | 0.316  | U             | 0.199 | U     | 0.356 | J     | 0.180  | J      | 0.152 | U     | 0.514 |       |
|  |                                  | 04/11/18    | PES        | Bladder         | 31.6                                      | U   | -      | -      | 0.0896  | U     | 0.412   | U     | 0.158        | U      | 0.316         | U     | 0.199 | U     | 0.153 | U      | 1.67   | -     | 0.152 | U     | 0.205 |
| 01/23/19                                   | PES                              | Bladder     | 31.6       | U               | -   | -   | 0.0896 | U      | 0.412   | U     | 0.158   | U     | 0.316        | U      | 0.790         | -     | 0.317 | J     | 1.51  | -      | 0.152  | U     | 0.392 |       |       |
| 04/23/19                                   | PES                              | Bladder     | 31.6       | U               | -   | -   | 0.0896 | U      | 0.412   | U     | 0.158   | U     | 0.316        | U      | 0.199         | U     | 0.153 | U     | 0.917 | -      | 0.152  | U     | 0.238 |       |       |
| MW106<br>(-78.01 to -88.01)                | SDOT Property<br>South of Roy St | 08/22/12    | SES        | Bladder         | -   | -   | -      | -      | -       | -     | -       | -     | -            | 1      | U             | 1     | U     | 1     | U     | 1      | U      | 1     | U     |       |       |
|  |                                  | 09/05/12    | SES        | Bladder         | -   | -   | -      | 0.35   | U       | 1     | U       | 1     | U            | 3      | U             | 1     | U     | 1     | U     | 1      | U      | 1     | U     | 0.2   |       |
|  |                                  | 12/17/13    | SES        | Bladder         | -   | -   | -      | 0.35   | U       | 1     | U       | 1     | U            | 3      | U             | 1     | U     | 1     | U     | 1      | U      | 1     | U     | 0.2   |       |
|  |                                  | 10/27/15    | SES        | Bladder         | -   | -   | -      | -      | -       | -     | -       | -     | -            | -      | 1             | U     | 1     | U     | 1     | U      | 1      | U     | 1     | U     | 0.2   |
|  |                                  | 02/02/16    | SES        | Bladder         | -   | -   | -      | -      | -       | -     | -       | -     | -            | -      | 1             | U     | 1     | U     | 1     | U      | 1      | U     | 1     | U     | 0.2   |
|  |                                  | 04/14/17    | PES        | Bladder         | -   | -   | -      | 0.0896 | U       | 0.412 | U       | 0.158 | U            | 0.316  | U             | 0.199 | U     | 0.153 | U     | 0.0933 | U      | 0.152 | U     | 0.118 |       |
|  |                                  | 06/30/17    | PES        | Bladder         | -   | -   | -      | 0.0896 | U       | 0.419 | J       | 0.158 | U            | 0.316  | U             | 0.199 | U     | 0.153 | U     | 0.0933 | U      | 0.152 | U     | 0.118 |       |
|  |                                  | 05/04/18    | PES        | Bladder         | 31.6                                      | U   | -      | -      | 0.0896  | U     | 0.412   | U     | 0.158        | U      | 0.316         | U     | 0.199 | U     | 0.153 | U      | 0.0933 | U     | 0.152 | U     | 0.118 |
| 04/26/19                                   | PES                              | Bladder     | 31.6       | U               | -   | -   | 0.0896 | U      | 0.412   | U     | 0.158   | U     | 0.316        | U      | 0.199         | U     | 0.153 | U     | 0.093 | U      | 0.152  | U     | 0.118 |       |       |
| MW113<br>(-37.06 to -47.06)                | 9th Ave North ROW                | 12/21/12    | SES        | Peristaltic     | -   | -   | -      | -      | -       | -     | -       | -     | -            | 1.3    | i             | 440   | -     | 5,500 | -     | 4.1    | -      | 150   |       |       |       |
|  |                                  | 12/19/13    | SES        | Peristaltic     | -   | -   | -      | 0.35   | U       | 1     | U       | 1     | U            | 3      | U             | 1     | U     | 13    | -     | 140    | -      | 1     | U     | 0.41  |       |
|  |                                  | 06/25/15    | SES        | Peristaltic     | -   | -   | -      | -      | -       | -     | -       | -     | -            | -      | 1             | U     | 19    | -     | 670   | -      | 1      | U     | 17    |       |       |
|  |                                  | 10/27/15    | SES        | Peristaltic     | -   | -   | -      | -      | -       | -     | -       | -     | -            | -      | 1             | U     | 4.5   | -     | 670   | -      | 1.2    | -     | 17    |       |       |
|  |                                  | 02/03/16    | SES        | Peristaltic     | -   | -   | -      | -      | -       | -     | -       | -     | -            | -      | 1             | U     | 1.1   | -     | 1,500 | -      | 2.2    | -     | 13    |       |       |
|  |                                  | 03/22/17    | PES        | Peristaltic     | -   | -   | -      | 2.60   | -       | 0.412 | U       | 0.158 | U            | 0.316  | U             | 0.199 | U     | 27.1  | -     | 7,280  | -      | 25.4  | -     | 63.5  |       |
|  |                                  | 06/16/17    | PES        | Bladder         | -   | -   | -      | 0.468  | J       | 0.412 | U       | 0.158 | U            | 0.316  | U             | 0.522 | -     | 148   | -     | 4,750  | -      | 28.2  | -     | 53.3  |       |
|  |                                  | 04/11/18    | PES        | Peristaltic     | -   | -   | -      | 0.880  | -       | 0.412 | U       | 0.158 | U            | 0.316  | U             | 191   | -     | 1,100 | -     | 3,720  | -      | 21.3  | -     | 34.9  |       |
|  |                                  | 01/30/19    | PES        | Peristaltic     | -   | -   | -      | 1.02   | J       | 2.06  | U       | 0.790 | U            | 1.580  | U             | 0.995 | U     | 2.81  | -     | 6,330  | -      | 22.8  | -     | 34.8  |       |
| 02/07/19                                   | PES                              | Peristaltic | 3,100      | J+z             | -   | -   | 0.811  | -      | 0.412   | U     | 0.158   | U     | 0.316        | U      | 0.199         | U     | 1.77  | -     | 6,990 | -      | 25.7   | -     | 46.0  |       |       |
| MW122<br>(-74.97 to -88.97)                | Alley East of<br>800 Aloha St    | 12/23/13    | SES        | Peristaltic     | -   | -   | -      | 0.35   | U       | 1     | U       | 1     | U            | 3      | U             | 1     | U     | 1     | U     | 1      | U      | 1     | U     | 0.2   |       |
|  |                                  | 10/20/15    | SES        | Peristaltic     | -   | -   | -      | -      | -       | -     | -       | -     | -            | -      | 1             | U     | 1     | U     | 1     | U      | 1      | U     | 1     | U     | 0.2   |
|  |                                  | 02/02/16    | SES        | Peristaltic     | -   | -   | -      | -      | -       | -     | -       | -     | -            | -      | 1             | U     | 1     | U     | 1     | U      | 1      | U     | 1     | U     | 0.2   |
|  |                                  | 03/28/17    | PES        | Peristaltic     | -   | -   | -      | 0.0896 | U       | 0.412 | U       | 0.158 | U            | 0.316  | U             | 0.199 | U     | 0.153 | U     | 0.0933 | U      | 0.152 | U     | 0.118 |       |
|  |                                  | 06/14/17    | PES        | Bladder         | -   | -   | -      | 0.0896 | U       | 0.412 | U       | 0.158 | U            | 0.316  | U             | 0.199 | U     | 0.162 | J     | 0.0933 | U      | 0.152 | U     | 0.118 |       |
|  |                                  | 04/06/18    | PES        | Peristaltic     | -   | -   | -      | 0.0896 | U       | 0.412 | U       | 0.158 | U            | 0.316  | U             | 0.199 | U     | 0.153 | U     | 0.0933 | U      | 0.152 | U     | 0.118 |       |
| MW123<br>(-42.49 to -52.49)                | Westlake Ave North<br>ROW        | 12/23/13    | SES        | Peristaltic     | -   | -   | -      | 0.35   | U       | 1     | U       | 1     | U            | 3      | U             | 1     | U     | 1     | U     | 1      | U      | 1     | U     | 0.2   |       |
|  |                                  | 04/01/17    | PES        | Peristaltic     | -   | -   | -      | 0.0896 | U       | 0.412 | U       | 0.158 | U            | 0.316  | U             | 0.199 | U     | 0.153 | U     | 0.0933 | U      | 0.152 | U     | 0.118 |       |
|  |                                  | 06/24/17    | PES        | Bladder         | -   | -   | -      | 0.0896 | U       | 0.412 | U       | 0.158 | U            | 0.316  | U             | 0.199 | U     | 0.153 | U     | 0.0933 | U      | 0.152 | U     | 0.118 |       |
|  |                                  | 04/14/18    | PES        | Peristaltic     | -   | -   | -      | 0.0896 | U       | 0.412 | U       | 0.158 | U            | 0.316  | U             | 0.284 | J     | 0.153 | U     | 0.0933 | U      | 0.152 | U     | 0.118 |       |
| MW124<br>(-53.76 to -63.76)<br>(duplicate) | Valley Street ROW                | 12/26/13    | SES        | Bladder         | -   | -   | -      | 0.35   | U       | 1     | U       | 1     | U            | 3      | U             | 1     | U     | 1     | U     | 1      | U      | 1     | U     | 0.2   |       |
|  |                                  | 03/29/17    | PES        | Bladder         | -   | -   | -      | 0.0896 | U       | 0.785 | U       | 0.158 | U            | 0.316  | U             | 1.60  | -     | 0.596 | -     | 0.661  | -      | 0.152 | U     | 0.118 |       |
|  |                                  | 03/29/17    | PES        | Bladder         | -   | -   | -      | 0.0896 | U       | 0.675 | U       | 0.158 | U            | 0.316  | U             | 1.22  | -     | 0.433 | -     | 0.600  | -      | 0.152 | U     | 0.118 |       |
|  |                                  | 06/15/17    | PES        | Bladder         | -   | -   | -      | 0.0896 | U       | 0.412 | U       | 0.158 | U            | 0.316  | U             | 0.199 | U     | 0.153 | U     | 0.0933 | U      | 0.152 | U     | 0.118 |       |
|  |                                  | 04/13/18    | PES        | Bladder         | 39.4                                      | U   | -      | -      | 0.0896  | U     | 0.412   | U     | 0.158        | U      | 0.316         | U     | 0.199 | U     | 0.153 | U      | 0.0933 | U     | 0.152 | U     | 0.118 |
| MW128                                      | Westlake Ave North               | 01/13/14    | SES        | Peristaltic     | -   | -   | -      | 0.35   | U       | 1     | U       | 1     | U            | 3      | U             | 1     | U     | 1     | U     | 960    | ve     | 1     | U     | 290   | ve    |

Table 5

Groundwater Analytical Data for Deep Water-Bearing Zone Wells  
700 Dexter Avenue North, Seattle, Washington

| Sample Location    | Area Location    | Sample Date | Sampled By | Sampling Method | Analytical Results (micrograms per liter) |     |     |          |         |              |               |          |          |          |         |          |      |
|--------------------|------------------|-------------|------------|-----------------|---|-----|-----|----------|---------|--------------|---------------|----------|----------|----------|---------|----------|------|
|                    |                  |             |            |                 | GRO                                       | DRO | ORO | Benzene  | Toluene | Ethylbenzene | Total Xylenes | PCE      | TCE      | cDCE     | tDCE    | VC       |      |
| Screening Level    |                  |             |            |                 | 800                                       | 500 | 500 | 0.5      | 72      | 29           | 10,000        | 2.4      | 1        | 16       | 100     | 0.2      |      |
|                    | ROW              | 04/22/15    | SES        | Peristaltic     | –   | –   | –   | –        | –       | –            | –             | –        | 1 U      | 1 U      | 150     | 1 U      | 59   |
|                    |                  | 10/20/15    | SES        | Peristaltic     | –   | –   | –   | –        | –       | –            | –             | –        | 1 U      | 1 U      | 7.0     | 1 U      | 95   |
|                    |                  | 02/02/16    | SES        | Peristaltic     | –   | –   | –   | –        | –       | –            | –             | –        | 1 U      | 1 U      | 70      | 1 U      | 140  |
|                    |                  | 03/29/17    | PES        | Peristaltic     | –   | –   | –   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U  | 0.153 U  | 7.16    | 0.152 U  | 72.4 |
|                    |                  | 06/21/17    | PES        | Bladder         | –   | –   | –   | 3.84     | 0.541   | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U  | 0.153 U  | 109     | 0.152 U  | 195  |
|                    |                  | 04/09/18    | PES        | Peristaltic     | –   | –   | –   | 28.3     | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U  | 0.153 U  | 3.07    | 0.152 U  | 31.0 |
| MW-138             | Dexter Ave N ROW | 09/21/17    | PES        | Bladder         | 63.3 J                                    | –   | –   | 0.179 U  | 2.60    | 0.316 U      | 0.632 U       | 0.398 U  | 0.306 U  | 0.187 U  | 0.304 U | 0.236 U  |      |
|                    |                  | 04/11/18    | PES        | Bladder         | 91.1 U                                    | –   | –   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U  | 0.0933 U | 0.152 U | 0.118 U  |      |
|                    |                  | 10/29/18    | PES        | Bladder         | 38.5 U                                    | –   | –   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U  | 0.0933 U | 0.152 U | 0.169 J  |      |
|                    |                  | 01/03/19    | PES        | Bladder         | 31.6 U                                    | –   | –   | 0.0896 U | 0.442 J | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U  | 0.0933 U | 0.152 U | 0.118 U  |      |
|                    |                  | 03/14/19    | PES        | Bladder         | 31.6 U                                    | –   | –   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 1.49     | 0.167 J  | 0.262 J  | 0.152 U | 0.118 U  |      |
|                    |                  | 04/22/19    | PES        | Bladder         | 31.6 U                                    | –   | –   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U  | 0.0933 U | 0.152 U | 0.118 UJ |      |
| MW-140 (duplicate) | Roy Street ROW   | 09/22/17    | PES        | Bladder         | –   | –   | –   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.450 J  | 0.477 J  | 0.152 U | 0.118 U  |      |
|                    |                  | 09/22/17    | PES        | Bladder         | –   | –   | –   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.456 J  | 0.523    | 0.152 U | 0.118 U  |      |
|                    |                  | 04/12/18    | PES        | Bladder         | 31.6 U                                    | –   | –   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.402 J+ | 0.572 J+ | 2.47 J+  | 0.152 U | 0.246 J+ |      |
| MW-153             | Roy Street ROW   | 05/01/18    | PES        | Bladder         | 31.6 J                                    | –   | –   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.756    | 0.153 U  | 0.612    | 0.152 U | 9.56     |      |
|                    |                  | 01/22/19    | PES        | Bladder         | 31.6 U                                    | –   | –   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U  | 1.41     | 0.152 U | 15.9     |      |
|                    |                  | 04/24/19    | PES        | Bladder         | 31.6 U                                    | –   | –   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U  | 1.07     | 0.152 U | 2.69 J   |      |
| (duplicate)        |                  | 04/24/19    | PES        | Bladder         | 31.6 U                                    | –   | –   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.153 U  | 0.975    | 0.152 U | 1.66 J   |      |
| MW-158A            | 8th Ave N ROW    | 04/30/18    | PES        | Bladder         | 101                                       | –   | –   | 0.0896 U | 2.66    | 0.158 U      | 0.316 U       | 17.7     | 18.7     | 59.6 J   | 0.205 J | 8.91     |      |
|                    |                  | 01/24/19    | PES        | Bladder         | 31.6 U                                    | –   | –   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.325 J  | 2.54     | 0.152 U | 7.58     |      |
|                    |                  | 04/25/19    | PES        | Bladder         | 31.6 U                                    | –   | –   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.240 J  | 0.974    | 0.152 U | 3.08 J   |      |
| MW-160             | 8th Ave N ROW    | 05/21/18    | PES        | Bladder         | 51.0 J                                    | –   | –   | 0.0896 U | 0.412 U | 0.158 U      | 0.342 J       | 0.380 J  | 0.835    | 2.96     | 0.152 U | 0.118 U  |      |
|                    |                  | 01/25/19    | PES        | Bladder         | 31.6 U                                    | –   | –   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.263 J  | 5.08     | 0.152 U | 0.118 U  |      |
|                    |                  | 05/01/19    | PES        | Bladder         | 31.6 U                                    | –   | –   | 0.0896 U | 0.412 U | 0.158 U      | 0.316 U       | 0.199 U  | 0.513    | 2.58     | 0.152 U | 0.118 UJ |      |

Table 5

Groundwater Analytical Data for Deep Water-Bearing Zone Wells  
700 Dexter Avenue North, Seattle, Washington

| Sample Location  | Area Location | Sample Date | Sampled By | Sampling Method | Analytical Results (micrograms per liter) |     |     |   |     |   |         |   |         |   |              |   |               |          |              |             |             |             |        |       |       |   |       |    |
|--|---------------|-------------|------------|-----------------|---|-----|-----|---|-----|---|---------|---|---------|---|--------------|---|---------------|----------|--------------|-------------|-------------|-------------|--------|-------|-------|---|-------|----|
|  |               |             |            |                 | GRO                                       |     | DRO |   | ORO |   | Benzene |   | Toluene |   | Ethylbenzene |   | Total Xylenes |          | PCE          | TCE         | cDCE        | tDCE        | VC     |       |       |   |       |    |
| Screening Level  |               |             |            |                 | 800                                       |     | 500 |   | 500 |   | 0.5     |   | 72      |   | 29           |   | 10,000        | 2.4      | 1            | 16          | 100         | 0.2         |        |       |       |   |       |    |
| MW-161   | 8th Ave N ROW | 05/21/18    | PES        | Bladder         | 31.6                                      | U   | –   | – | –   | – | 0.0896  | U | 0.412   | U | 0.158        | U | <b>0.329</b>  | <b>J</b> | <b>2.01</b>  | <b>1.79</b> | <b>1.89</b> | 0.152       | U      | 0.118 | U     |   |       |    |
|  |               | 01/25/19    | PES        | Bladder         | 31.6                                      | U   | –   | – | –   | – | 0.0896  | U | 0.412   | U | 0.158        | U | 0.316         | U        | <b>0.472</b> | <b>J</b>    | <b>1.66</b> | <b>1.26</b> | 0.152  | U     | 0.118 | U |       |    |
|  |               | 05/01/19    | PES        | Bladder         | 31.6                                      | U   | –   | – | –   | – | 0.0896  | U | 0.412   | U | 0.158        | U | 0.316         | U        | <b>0.482</b> | <b>J</b>    | <b>1.66</b> | <b>1.15</b> | 0.152  | U     | 0.118 | U |       |    |
| Number of Samples  |               |             |            |                 | 54  |     | –   | – | –   | – | 114     |   | 114     |   | 114          |   | 114           |          | 147          |             | 147         |             | 147    |       | 147   |   |       |    |
| Number of Detections   |               |             |            |                 | 15  |     | –   | – | –   | – | 9       |   | 19      |   | 0            |   | 3             |          | 56           |             | 65          |             | 95     |       | 32    |   | 86    |    |
| Frequency of Detection   |               |             |            |                 | 28%                                       |     | –   | – | –   | – | 8%      |   | 17%     |   | 0%           |   | 3%            |          | 38%          |             | 44%         |             | 65%    |       | 22%   |   | 59%   |    |
| Maximum  |               |             |            |                 | 3,100                                     | J+z | –   | – | –   | – | 28.3    |   | 3.90    |   | –            |   | 0.396         | J        | 2,800        |             | 1,100       |             | 7,280  |       | 28.2  |   | 290   | ve |
| Minimum  |               |             |            |                 | 31.6                                      | U   | –   | – | –   | – | 0.0896  | U | 0.412   | U | 0.158        | U | 0.316         | U        | 0.199        | U           | 0.153       | U           | 0.0933 | U     | 0.152 | U | 0.118 | U  |
| <p>Notes:</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>1. Petroleum hydrocarbons analyzed by EPA Method 418.1 NWTPH-HCID, or NWTPH-Gx, NWTPH-Dx or 8015-M</p> <p>2. GRO = gasoline-range organics</p> <p>3. DRO = diesel-range organics</p> <p>4. ORO = oil-range organics</p> <p>5. PCE = perchloroethylene (tetrachloroethene)</p> <p>6. TCE = trichloroethene</p> <p>7. cDCE = cis-1,2-dichloroethene</p> <p>8. tDCE = trans-1,2-dichloroethene</p> <p>9. VC = vinyl chloride</p> <p>10. ROW = right-of-way</p> </div> <div style="width: 45%;"> <p>11. (dup) = duplicate</p> <p>12. SES = SoundEarth Strategies, Inc.</p> <p>13. Farallon = Farallon Consulting, LLC</p> <p>14. – = not analyzed or not measured</p> <p>15. U = not detected at a concentration exceeding laboratory reporting limit</p> <p>16. ND = not detected at a concentration exceeding laboratory reporting limit; detection limit not provided</p> <p>17. Detected results shown in bold, detections above the screening levels highlighted in gray</p> <p>18. ve = estimated value due to the reported range exceeding the calibration range of the analysis</p> <p>19. i = the presence of the analyte indicated may be due to carryover from previous sample injections</p> <p>20. z = No/low level gasoline/petroleum detection; result is likely elevated due to high detections of CVOCs</p> </div> </div> |               |             |            |                 |   |     |     |   |     |   |         |   |         |   |              |   |               |          |              |             |             |             |        |       |       |   |       |    |

Table 6

**Groundwater Geochemical Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

| Sample Location            | Property          | Sample Date | Sampled By | Alkalinity (mg CaCO <sub>3</sub> /L) | Chloride (mg/L) | Nitrate (mg/L) | Sulfate (mg/L) | TOC (mg/L) | Iron (mg/L) |         |         | Total Manganese (mg/L) | Dissolved Gases (µg/L) |         |         |  |
|----------------------------|-------------------|-------------|------------|--------------------------------------|-----------------|----------------|----------------|------------|-------------|---------|---------|------------------------|------------------------|---------|---------|--|
|                            |                   |             |            |                                      |                 |                |                |            | Total       | Ferrous | Ferric  |                        | Methane                | Ethane  | Ethene  |  |
| <b>Shallow Zone</b>        |                   |             |            |                                      |                 |                |                |            |             |         |         |                        |                        |         |         |  |
| F13                        | Property          | 03/27/17    | PES        | 266                                  | 8.85            | 0.0227 U       | 68.3           | 10.0       | 24.2        | 1.0     | 23.2    | 0.651                  | 510                    | 0.296 U | 0.422 U |  |
|                            |                   | 06/22/17    | PES        | 484                                  | 12.6            | 0.0227 U       | 6.13           | 10.9       | 29.3        | 1.5     | 27.8    | 0.806                  | 2,610                  | 0.296 U | 0.422 U |  |
| Decommissioned March 2019  |                   |             |            |                                      |                 |                |                |            |             |         |         |                        |                        |         |         |  |
| J5                         | Property          | 03/21/17    | PES        | 53.4                                 | 28.0            | 0.0584 J       | 16.3           | 4.10       | 1.09        | 0.6     | 0.49    | 0.474                  | 2,370                  | 0.296 U | 29.4    |  |
|                            |                   | 06/26/17    | PES        | 209                                  | 45.1            | 0.0227 U       | 8.85           | 11.4       | 2.91        | -       | -       | 2.24                   | 9,600                  | 19.6    | 34.4    |  |
| Decommissioned March 2019  |                   |             |            |                                      |                 |                |                |            |             |         |         |                        |                        |         |         |  |
| J15<br>(dup)               | Property          | 03/27/17    | PES        | 476                                  | 24.2            | 0.0227 U       | 55.8           | 20.0       | 5.52        | 2.0     | 3.5     | 3.34                   | 3,100                  | 0.296 U | 0.422 U |  |
|                            |                   | 06/26/17    | PES        | 486                                  | 22.0            | 0.0227 U       | 60.3           | 19.1       | 2.66        | 1.5     | 1.2     | 3.09                   | 2,220                  | 0.296 U | 0.422 U |  |
|                            |                   | 06/26/17    | PES        | 543                                  | 22.1            | 0.0227 U       | 60.4           | 19.0       | 3.02        | 1.5     | 1.5     | 3.03                   | 2.34                   | 0.296 U | 0.422 U |  |
| Decommissioned March 2019  |                   |             |            |                                      |                 |                |                |            |             |         |         |                        |                        |         |         |  |
| K8                         | Property          | 03/21/17    | PES        | 70.3                                 | 10.1            | 0.103          | 27.2           | 5.93       | 0.0622 J    | 0       | 0.0622  | 0.242                  | 41.4                   | 0.296 U | 0.422 U |  |
|                            |                   | 06/26/17    | PES        | 97.5                                 | 14.7            | 0.307          | 25.8           | 6.45       | 0.0411 J    | 0       | 0.0411  | 0.296                  | 72.7                   | 0.296 U | 0.422 U |  |
| Decommissioned March 2019  |                   |             |            |                                      |                 |                |                |            |             |         |         |                        |                        |         |         |  |
| M15<br>(dup)               | Property          | 03/27/17    | PES        | 830                                  | 11.6            | 0.0227 U       | 40.4           | 11.4       | 3.76        | 2.75    | 1.01    | 6.07                   | 11,500                 | 0.296 U | 0.422 U |  |
|                            |                   | 03/27/17    | PES        | 817                                  | 11.6            | 0.0227 U       | 40.4           | 11.7       | 3.77        | -       | -       | 6.17                   | 10,400                 | 0.296 U | 0.422 U |  |
|                            |                   | 06/26/17    | PES        | 904                                  | 11.0            | 0.0227 U       | 47.2           | 11.0       | 3.32        | -       | -       | 6.32                   | 7,250                  | 0.296 U | 0.422 U |  |
| Decommissioned March 2019  |                   |             |            |                                      |                 |                |                |            |             |         |         |                        |                        |         |         |  |
| MW121                      | 8th Ave N ROW     | 12/26/13    | SES        | 790                                  | 18.6            | 0.0250 U       | 200            | -          | 2.39        | 1.90    | 0.49    | 6.47                   | 346                    | 5 U     | 5 U     |  |
|                            |                   | 03/28/17    | PES        | 848                                  | 12.2            | 0.0227 U       | 643            | 17.9       | 33.3        | 2.0     | 31.3    | 13.2                   | 479                    | 2.04    | 0.422 U |  |
|                            |                   | 06/20/17    | PES        | 930                                  | 13.3            | 0.0227 U       | 61.2 J         | 16.5       | 27.1        | 3.0     | 24.1    | 11.0                   | 2,140                  | 8.88    | 0.422 U |  |
| MW125                      | Valley Street ROW | 12/26/13    | SES        | 650                                  | 112             | 0.076          | 12.8           | -          | 2.39        | 1.47    | 0.92    | 1.85                   | 455                    | 6.34    | 5 U     |  |
| MW-9                       | 8th Ave N ROW     | 12/16/13    | SES        | 56                                   | 3.76            | 0.059          | 6.08           | -          | 3.32        | 3.41    | 0       | 0.778                  | 6.24                   | 5 U     | 5 U     |  |
| N7                         | Property          | 03/30/17    | PES        | 118                                  | 4.73            | 6.87           | 25.2           | 1.35       | 0.120       | 0.0     | 0.12    | 1.50                   | 11,000                 | 0.296 U | 0.422 U |  |
|                            |                   | 06/27/17    | PES        | 235                                  | 8.76            | 6.290          | 48.4           | 2.71       | 1.45        | 0.25    | 1.20    | 3.31                   | 8,430                  | 0.296 U | 0.422 U |  |
| Decommissioned March 2019  |                   |             |            |                                      |                 |                |                |            |             |         |         |                        |                        |         |         |  |
| R-MW5                      | Dexter Ave N ROW  | 03/23/17    | PES        | 183                                  | 32.2            | 0.0549 J       | 33.0           | 3.94       | 2.94        | 1.0     | 1.94    | 4.24                   | 118                    | 0.296 U | 0.422 U |  |
|                            |                   | 06/16/17    | PES        | 152                                  | 58.3            | 0.253          | 21.8           | 2.59       | 2.74        | -       | -       | 1.29                   | 275                    | 0.296 U | 0.422 U |  |
| R-MW6                      | 8th Ave N ROW     | 03/21/17    | PES        | 586                                  | 5.72            | 0.191          | 119            | 6.28       | 5.02        | -       | -       | 6.24                   | 9,410                  | 0.296 U | 0.422 U |  |
|                            |                   | 06/20/17    | PES        | 718                                  | 11.1            | 0.023 U        | 85.7           | 13.6       | 27.0        | 1.5     | 25.5    | 8.28                   | 6,980                  | 10.7    | 11.2    |  |
| <b>Intermediate A Zone</b> |                   |             |            |                                      |                 |                |                |            |             |         |         |                        |                        |         |         |  |
| BB-8                       | Roy Street ROW    | 12/29/13    | SES        | 270                                  | 12.6            | 3.68           | 84.6           | -          | 0.085       | 0.01    | 0.08    | 0.252                  | 5 U                    | 5 U     | 5 U     |  |
|                            |                   | 03/22/17    | PES        | 254                                  | 7.87            | 3.17           | 41.5           | 2.25       | 0.125       | 0       | 0.125   | 0.0705                 | 0.412 J                | 0.296 U | 0.422 U |  |
|                            |                   | 06/14/17    | PES        | 290                                  | 10.2            | 2.74           | 56.9           | 3.34       | 0.0348 J    | 0       | 0.035   | 0.0475                 | 0.287 U                | 0.296 U | 0.422 U |  |
|                            |                   | 04/11/18    | PES        | 258                                  | 7.43            | 3.41           | 3.98           | 3.24       | 0.145       | 0       | 0.145   | 0.0940                 | 0.287 U                | 0.296 U | 0.422 U |  |
|                            |                   | 04/11/18    | PES        | 262                                  | 7.42            | 3.17           | 3.98           | 3.14       | 0.0962      | 0       | 0.096   | 0.0544                 | 0.287 U                | 0.296 U | 0.422 U |  |
|                            |                   | 01/23/19    | PES        | 280                                  | 12.4            | 0.891          | 93.3           | 3.43       | 0.0954 J    | -       | -       | 0.0820 J               | 111                    | 0.735 J | 0.422 U |  |
| 04/23/19                   | PES               | 227         | 28.1       | 2.77                                 | 44.4            | 2.71           | 0.315          | 0.0        | 0.3         | 0.0637  | 0.287 U | 0.296 U                | 0.422 U                |         |         |  |
| GEI-1                      | Block 37          | 03/24/17    | PES        | 564                                  | 8.9             | 0.0227 U       | 0.0774 U       | 11.7       | 23.8        | 1.0     | 22.8    | 3.10                   | 20,500                 | 0.296 U | 0.422 U |  |
|                            |                   | 06/13/17    | PES        | 304                                  | 15              | 0.0792 J       | 25.3           | 6.73       | 9.05        | -       | -       | 1.50                   | 10,600                 | 0.296 U | 0.422 U |  |
| MW107                      | 8th Ave N ROW     | 12/16/13    | SES        | 340                                  | 70.8            | 0.025 U        | 165            | -          | 1.35        | 0.43    | 0.92    | 0.358                  | 8.69                   | 5 U     | 5 U     |  |
|                            |                   | 03/27/17    | PES        | 559                                  | 122             | 0.0262         | 0.0774 U       | 147        | 17.6        | 2.0     | 15.6    | 1.12                   | 8.38                   | 0.296 U | 159     |  |
|                            |                   | 06/19/17    | PES        | 651                                  | 90              | 0.0227 U       | 0.0774 U       | 91.0       | 10.5        | 1.5     | 9.0     | 0.955                  | 7350                   | 0.296 U | 205     |  |
|                            |                   | 04/09/18    | PES        | 692                                  | 675             | 0.0227 U       | 3.54 J         | 26.3       | 4.84        | 4.0     | 0.8     | 1.21                   | 6,700                  | 44.2    | 38.1    |  |
|                            |                   | 01/30/19    | PES        | 564                                  | 49.2            | 0.0227 U       | 37.1           | 14.5       | 2.35        | -       | -       | 0.947                  | 14,500                 | 89.2    | 70.3    |  |

Table 6

**Groundwater Geochemical Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

| Sample Location           | Property                         | Sample Date    | Sampled By | Alkalinity (mg CaCO <sub>3</sub> /L) | Chloride (mg/L) | Nitrate (mg/L) | Sulfate (mg/L) | TOC (mg/L) | Iron (mg/L) |         |        | Total Manganese (mg/L) | Dissolved Gases (µg/L) |         |         |
|---------------------------|----------------------------------|----------------|------------|--------------------------------------|-----------------|----------------|----------------|------------|-------------|---------|--------|------------------------|------------------------|---------|---------|
|                           |                                  |                |            |                                      |                 |                |                |            | Total       | Ferrous | Ferric |                        | Methane                | Ethane  | Ethene  |
| MW107                     |                                  | 05/01/19       | PES        | 538                                  | 41.6            | 0.0227 U       | 51.8           | 14.2       | 2.67        | 2.0     | 0.7    | 1.08                   | 18,000                 | 122     | 93.2    |
| MW108                     | Alley Between<br>8th & 9th Ave N | 12/17/13       | SES        | 600                                  | 25.8            | 0.075          | 12.5           | -          | 17.5        | 21.7    | 0      | 1.96                   | 2,110                  | 22.8    | 5 U     |
|                           |                                  | 03/28/17       | PES        | 577                                  | 22.1            | 0.0227 U       | 106            | 7.32       | 19.7        | 2.5     | 17.2   | 2.27                   | 1,740                  | 36.4    | 2.20    |
|                           |                                  | 06/27/17       | PES        | 679                                  | 20.6            | 0.0227 U       | 101            | 8.62       | 21.8        | 2.0     | 19.8   | 2.20                   | 3,940                  | 47.8    | 0.42 U  |
| MW109                     | Alley Between<br>8th & 9th Ave N | 12/17/13       | SES        | 670                                  | 16.1            | 0.0250 U       | 34.6           | -          | 12.6        | 16.2    | 0      | 4.04                   | 1,400                  | 5.89    | 5 U     |
|                           |                                  | 03/29/17       | PES        | 498                                  | 6.90            | 0.0255 J       | 31.4           | 10.8       | 12.0        | 1.5     | 10.5   | 3.01                   | 2,000                  | 7.21    | 0.422 U |
|                           |                                  | 06/17/17       | PES        | 693                                  | 13.3            | 0.0227 U       | 42.5           | 12.2       | 14.6        | 1.5     | 13.1   | 3.90                   | 2,540                  | 8.65    | 0.422 U |
| MW110                     | Alley Between<br>8th & 9th Ave N | 12/19/13       | SES        | 390                                  | 20.4            | 0.603          | 158            | -          | 0.079       | 0.04    | 0.04   | 3.28                   | 7.66                   | 5 U     | 5 U     |
|                           |                                  | 03/23/17       | PES        | 425                                  | 36.2            | 0.652          | 108            | 7.98       | 0.948 J     | 0.1     | 0.848  | 3.90                   | 125                    | 1.21 J  | 0.422 U |
|                           |                                  | 06/27/17       | PES        | 516                                  | 27.0            | 0.0227 U       | 160            | 4.91       | 0.115       | 0       | 0.115  | 2.13                   | 95.5                   | 17.4    | 0.422 U |
| MW114                     | SDOT Property S of Roy           | 12/18/13       | SES        | 190                                  | 31.2            | 0.032          | 98.8           | -          | 0.075       | 0.03    | 0.05   | 0.629                  | 5 U                    | 5 U     | 5 U     |
| MW115                     | 9th Ave N ROW                    | 12/19/13       | SES        | 580                                  | 22.1            | 0.0250 U       | 3.35           | -          | 6.24        | 6.69    | 0      | 1.44                   | 2,550                  | 5 U     | 5 U     |
|                           |                                  | 03/22/17       | PES        | 417                                  | 28.5            | 0.0227 U       | 35.9           | 7.69       | 5.69        | 1.5     | 4.19   | 1.32                   | 215                    | 0.296 U | 0.422 U |
|                           |                                  | 06/22/17       | PES        | 401                                  | 33.0            | 0.0227 U       | 46.1           | 7.39       | 6.19        | 1.5     | 4.69   | 1.19                   | 3,570                  | 4.98    | 0.422 U |
| MW116                     | 9th Ave N ROW                    | 12/19/13       | SES        | 310                                  | 26.2            | 0.0250 U       | 14.5           | -          | 2.48        | 2.65    | 0      | 1.14                   | 1,750                  | 5 U     | 5 U     |
|                           |                                  | 03/21/17       | PES        | 432                                  | 22.0            | 0.0227 U       | 25.7           | 7.34       | 6.01        | 3.9     | 2.11   | 0.869                  | 8,590                  | 0.296 U | 0.422 U |
|                           |                                  | 06/16/17       | PES        | 377                                  | 25.1            | 0.0227 U       | 9.31           | 6.80       | 6.69        | 1.8     | 4.89   | 0.793                  | 8,610                  | 0.296 U | 0.422 U |
| MW117                     | Dexter Ave N ROW                 | 12/18/13       | SES        | 200                                  | 9.11            | 0.0250 U       | 56.3           | -          | 1.49        | 2.03    | 0      | 0.344                  | 5 U                    | 5 U     | 5 U     |
| MW119                     | 9th Ave N ROW                    | 12/19/13       | SES        | 310                                  | 12.1            | 0.0250 U       | 3.34           | -          | 19.4        | 18.6    | 0.8    | 2.55                   | 3,450                  | 5 U     | 5 U     |
|                           |                                  | 03/29/17       | PES        | 255                                  | 20.5            | 0.164          | 14.9           | 6.84       | 17.1        | 2.0     | 15.1   | 2.98                   | 819                    | 0.296 U | 0.422 U |
|                           |                                  | 06/28/17       | PES        | 360                                  | 13.7            | 0.0227 UJ      | 56.1           | 9.09       | 5.66        | 1.5     | 4.2    | 1.25                   | 73.5                   | 0.296 U | 0.422 U |
| MW120                     | 8th Ave N ROW                    | 12/19/13       | SES        | 290                                  | 36.5            | 0.0690         | 99.4           | -          | 0.288       | 0.17    | 0.12   | 0.319                  | 10.1                   | 5 U     | 5 U     |
|                           |                                  | 04/09/18       | PES        | 151                                  | 30.2            | 0.237          | 66.9           | 1.08       | 1.40        | 0       | 1.40   | 0.194                  | 0.287 U                | 0.296 U | 0.422 U |
|                           |                                  | 01/24/19       | PES        | 206                                  | 22.4            | 1.98           | 73.6           | 1.78       | 3.68        | 0.0     | 3.68   | 0.387                  | 235                    | 2.71    | 0.422 U |
|                           |                                  | 05/03/19       | PES        | 217                                  | 20.5            | 2.01           | 66.2           | 1.66       | 2.31 J      | -       | -      | 0.384                  | 157 J                  | 0.296 U | 0.422 U |
|                           |                                  | (dup) 05/03/19 | PES        | 217                                  | 20.3            | 1.96           | 65.9           | 1.58       | 1.12 J      | -       | -      | 346                    | 115 J                  | 0.296 U | 0.422 U |
| MW131                     | Property                         | 03/27/17       | PES        | 911                                  | 141             | 0.0227 U       | 0.0774 U       | 8.93       | 7.98        | 1.90    | 6.08   | 1.06                   | 16,200                 | 0.296 U | 280     |
|                           |                                  | 06/20/17       | PES        | 1,050                                | 122             | 0.0227 U       | 0.724 J        | 10.8       | 7.42        | -       | -      | 1.01                   | 10,700                 | 0.296 U | 332     |
|                           |                                  | 04/16/18       | PES        | 712                                  | 114             | 0.0227 U       | 0.0774 U       | 44.2       | 7.97        | 1.8     | 6.2    | 1.19                   | 29,900                 | 329     | 467     |
| Decommissioned March 2019 |                                  |                |            |                                      |                 |                |                |            |             |         |        |                        |                        |         |         |
| MW-142                    | 8th Ave N ROW                    | 04/27/18       | PES        | 794                                  | 15.6            | 0.0227 U       | 0.426 J        | 33.7       | 3.16        | 1.50    | 1.66   | 2.58                   | 7,980                  | 44.6    | 0.422 U |
|                           |                                  | 01/28/19       | PES        | 784                                  | 10.1            | 0.0227 U       | 0.0774 U       | 27.7       | 2.87        | 2.0     | 0.87   | 2.37                   | 3,530                  | 17.7    | 0.422 U |
|                           |                                  | 01/28/19       | PES        | 779                                  | 10.2            | 0.0227 U       | 0.0774 U       | 28.3       | 2.66        | 2.0     | 0.66   | 2.46                   | 3,490                  | 18.5    | 0.422 U |
|                           |                                  | 04/24/19       | PES        | 798                                  | 9.76            | 0.0227 U       | 27.3           | 31.7       | 3.50        | 1.2     | 2.3    | 1.99                   | 3,560                  | 19.2    | 0.422 U |
| MW-144                    | 8th Ave N ROW                    | 04/27/18       | PES        | 740                                  | 182             | 0.0227 U       | 9.39           | 159        | 1.07        | 0.50    | 0.57   | 1.98                   | 17,700                 | 55.4    | 5,480   |
|                           |                                  | 01/28/19       | PES        | 735                                  | 149             | 0.0227 U       | 0.0774 U       | 15.1       | 1.98        | -       | -      | 1.66                   | 13,700                 | 495     | 1,140   |
|                           |                                  | 04/23/19       | PES        | 733                                  | 144             | 0.0227 U       | 0.0774 U       | 11.4       | 1.22        | 1.2     | 0.0    | 1.48                   | 13,000                 | 771     | 699     |
| MW-146                    | 8th Ave N ROW                    | 04/30/18       | PES        | 363                                  | 30.4            | 0.0227 U       | 22.3           | 4.47       | 2.65        | 1.25    | 1.40   | 1.26                   | 9,240                  | 11.9    | 489     |
|                           |                                  | 01/22/19       | PES        | 249                                  | 15.8            | 0.0227 U       | 32.1           | 3.43       | 1.76        | 2.0     | 0.0    | 0.56                   | 2,460                  | 1.84    | 107     |
|                           |                                  | 04/24/19       | PES        | 310                                  | 14.8            | 0.0227 U       | 23.3           | 4.95       | 2.87        | 2.5     | 0.4    | 0.770                  | 5,090                  | 4.00    | 347     |
| MW-149                    | Property                         | 04/10/18       | PES        | 504                                  | 44.6            | 0.0227 U       | 16.9           | 9.94       | 2.18        | 1.80    | 0.38   | 2.70                   | 14,400                 | 414     | 363     |
|                           |                                  | 12/13/18       | PES        | 407                                  | 7.71            | 0.0227 U       | 225            | 75.1       | 26.1        | 0.50    | 25.6   | 12.8                   | 11,400                 | 2,430   | 35.9    |
| Decommissioned March 2019 |                                  |                |            |                                      |                 |                |                |            |             |         |        |                        |                        |         |         |
| MW-151                    | Property                         | 04/10/18       | PES        | 409                                  | 65.5            | 0.0870 J       | 2.08 J         | 39.2       | 1.38        | 0.80    | 0.58   | 0.536                  | 36,500                 | 83.3    | 1,440   |
|                           |                                  | 12/14/18       | PES        | 618                                  | 32.2            | 0.0227 U       | 702            | 335        | 138         | -       | -      | 11.8                   | 18,900                 | 68.4    | 68.4    |

Table 6

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Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

| Sample Location            | Property                         | Sample Date               | Sampled By | Alkalinity (mg CaCO <sub>3</sub> /L) | Chloride (mg/L) | Nitrate (mg/L) | Sulfate (mg/L) | TOC (mg/L) | Iron (mg/L) |         |        | Total Manganese (mg/L) | Dissolved Gases (µg/L) |        |        |       |       |       |   |
|----------------------------|----------------------------------|---------------------------|------------|--------------------------------------|-----------------|----------------|----------------|------------|-------------|---------|--------|------------------------|------------------------|--------|--------|-------|-------|-------|---|
|                            |                                  |                           |            |                                      |                 |                |                |            | Total       | Ferrous | Ferric |                        | Methane                | Ethane | Ethene |       |       |       |   |
| MW-151                     |                                  | Decommissioned March 2019 |            |                                      |                 |                |                |            |             |         |        |                        |                        |        |        |       |       |       |   |
| MW-156<br><br>(dup)        | 8th Ave N ROW                    | 04/26/18                  | PES        | 436                                  | 46.3            | 0.0227 U       | 25.0           | 10.7       | 10.2        | 0       | 10.2   | 1.13                   | 2,250                  | 28.4   | 23.8   |       |       |       |   |
|                            |                                  | 01/24/19                  | PES        | 554                                  | 25.1            | 0.0227 U       | 67.6           | 34.3       | 3.42        | 0.0     | 3.42   | 6.59                   | 2,470                  | 44.8   | 0.422  | U     |       |       |   |
|                            |                                  | 04/24/19                  | PES        | 618                                  | 18.6            | 0.0227 U       | 145            | 57.3       | 3.81        | 0.4     | 3.4    | 9.01                   | 1,720                  | 31.2   | 0.422  | U     |       |       |   |
|                            |                                  | 04/24/19                  | PES        | 612                                  | 19.3            | 0.259          | 145            | 56.0       | 4.76        | 0.4     | 4.4    | 9.75                   | 1,590                  | 28.4   | 0.422  | U     |       |       |   |
| <b>Intermediate B Zone</b> |                                  |                           |            |                                      |                 |                |                |            |             |         |        |                        |                        |        |        |       |       |       |   |
| MW111                      | Alley Between<br>8th & 9th Ave N | 12/17/13                  | SES        | 170                                  | 47.3            | 0.025 U        | 4.73           | -          | 0.168       | 0.18    | 0      | 0.135                  | 14.7                   | 5      | U      | 5     | U     |       |   |
|                            |                                  | 03/23/17                  | PES        | 179                                  | 22.9            | 0.0680 J       | 8.25           | 0.918 J    | 0.391       | 0.1     | 0.3    | 0.151                  | 136                    | 5.75   |        | 4.17  |       |       |   |
|                            |                                  | 06/14/17                  | PES        | 202                                  | 23.2            | 0.0227 U       | 8.97           | 1.20       | 0.298       | -       | -      | 0.142                  | 231                    | 7.73   |        | 6.71  |       |       |   |
| MW112                      | Dexter Ave N ROW                 | 12/26/13                  | SES        | 160                                  | 12.3            | 0.0640         | 44.9           | -          | 0.560       | 0.23    | 0.33   | 0.106                  | 5                      | U      | 5      | U     | 5     | U     |   |
|                            |                                  | 03/22/17                  | PES        | 188                                  | 10.6            | 0.0227 U       | 45.2           | 1.35       | 0.238       | -       | -      | 0.0411                 | 4.89                   | 0.296  | U      | 0.422 | U     |       |   |
|                            |                                  | 06/16/17                  | PES        | 240                                  | 1.15            | 0.162          | 1.26           | J          | 5.48        | 2.56    | -      | -                      | 0.0871                 | 1.78   | 0.296  | U     | 0.422 | U     |   |
|                            |                                  | 04/12/18                  | PES        | 16.7                                 | J               | 2.09           | 0.398          | J          | 1.31        | J       | 2.80   | 19.5                   | 0.0                    | 19.5   | 0.421  | 0.296 | U     | 0.422 | U |
|                            |                                  | 12/22/18                  | PES        | 41.6                                 |                 | 9.72           | 0.0683         | J          | 0.342       | J       | 5.51   | 22.6                   | -                      | -      | 0.573  | 0.296 | U     | 0.422 | U |
|                            |                                  | 04/22/19                  | PES        | 82.9                                 |                 | 7.09           | 0.0227 U       | 7.65       | 6.04        | 4.90    | -      | -                      | 0.177                  | 281    | 1.12   | J     | 1.13  | J     |   |
| MW-132                     | Property                         | 04/26/18                  | PES        | 542                                  | 30.1            | 0.0227 U       | 10.6           | 18.6       | 9.59        | -       | -      | 2.04                   | 4,640                  | 75.9   |        | 0.422 | U     |       |   |
|                            |                                  | 12/13/18                  | PES        | 260                                  | 40.4            | 0.0227 U       | 7.21           | 3.4        | 0.544       | -       | -      | 0.278                  | 89.7                   | 0.925  | J      | 41.0  |       |       |   |
| Decommissioned March 2019  |                                  |                           |            |                                      |                 |                |                |            |             |         |        |                        |                        |        |        |       |       |       |   |
| MW130                      | Property<br><br>(dup)            | 03/29/17                  | PES        | 276                                  | 100             | 0.0227 U       | 7.07           | 10.7       | 1.19        | 1.0     | 0.19   | 0.555                  | 619                    | 1.62   |        | 30.0  |       |       |   |
|                            |                                  | 06/30/17                  | PES        | 339                                  | 115             | 0.0227 U       | 6.23           | 1.84 J     | J           | 0.907   | 0.0    | 0.907                  | 0.532                  | 1,040  | 2.47   |       | 64.5  |       |   |
|                            |                                  | 06/30/17                  | PES        | 335                                  | 111             | 0.0227 U       | 6.16           | 9.68 J     | J           | 0.876   | 0.0    | 0.876                  | 0.527                  | 1,120  | 2.33   |       | 69.1  |       |   |
|                            |                                  | 05/21/18                  | PES        | 2.71                                 | U               | 135            | 265            | J          | 1.68        | J       | 7.54   | 5.44                   | 0.727                  | 1,760  | 33.6   |       | 284   |       |   |
|                            |                                  | 12/17/18                  | PES        | 384                                  | 143             | 0.0227 U       | 17.3           | 12.6       | 2.26        | 0.490   | 0.0    | 2.26                   | 0.490                  | 324    | 8.36   |       | 166   |       |   |
| Decommissioned March 2019  |                                  |                           |            |                                      |                 |                |                |            |             |         |        |                        |                        |        |        |       |       |       |   |
| MW-132                     | Property                         | 04/26/18                  | PES        | 542                                  | 30.1            | 0.0227 U       | 10.6           | 18.6       | 9.59        | -       | -      | 2.04                   | 4,640                  | 75.9   |        | 0.422 | U     |       |   |
|                            |                                  | 12/13/18                  | PES        | 260                                  | 40.4            | 0.0227 U       | 7.21           | 3.4        | 0.544       | -       | -      | 0.278                  | 89.7                   | 0.925  | J      | 41.0  |       |       |   |
| Decommissioned March 2019  |                                  |                           |            |                                      |                 |                |                |            |             |         |        |                        |                        |        |        |       |       |       |   |
| MW-134                     | Property                         | 04/16/18                  | PES        | 298                                  | 38              | 0.0227 UJ      | 1.30           | J          | 3.27        | 292     | 0.00   | 292                    | 5.00                   | 5,200  | 61.3   | 952   |       |       |   |
| Decommissioned March 2019  |                                  |                           |            |                                      |                 |                |                |            |             |         |        |                        |                        |        |        |       |       |       |   |
| MW-135                     | Property                         | 04/25/18                  | PES        | 273                                  | 118             | 0.0227 U       | 21.9           | 6.21       | 1.74        | 1.50    | 0.24   | 0.656                  | 333                    | 18.1   | 131    |       |       |       |   |
|                            |                                  | 12/13/18                  | PES        | 379                                  | 128             | 0.0227 U       | 61.8           | 18.1       | 4.95        | 0.75    | 4.20   | 1.450                  | 2,060                  | 56.1   | 327    |       |       |       |   |
| Decommissioned March 2019  |                                  |                           |            |                                      |                 |                |                |            |             |         |        |                        |                        |        |        |       |       |       |   |
| MW-136                     | Property                         | 04/16/18                  | PES        | 241                                  | 22.1            | 0.165          | 0.638          | J          | 15.1        | 21.4    | 0.60   | 20.8                   | 0.618                  | 5,510  | 8.52   | 5.77  |       |       |   |
| Decommissioned March 2019  |                                  |                           |            |                                      |                 |                |                |            |             |         |        |                        |                        |        |        |       |       |       |   |
| MW-139                     | Property                         | 04/25/18                  | PES        | 212                                  | 21.9            | 0.0227 R       | 2.21           | J          | 28.5        | 1.13    | 0.75   | 0.38                   | 0.251                  | 4.28   | 8.04   | 0.42  | U     |       |   |
| Decommissioned March 2019  |                                  |                           |            |                                      |                 |                |                |            |             |         |        |                        |                        |        |        |       |       |       |   |
| MW-143                     | 8th Ave N ROW                    | 04/30/18                  | PES        | 448                                  | 66.5            | 0.0227 U       | 4.69           | J          | 2.55        | 2.08    | 0.50   | 1.58                   | 0.390                  | 6,720  | 92.5   | 360   |       |       |   |
|                            |                                  | 01/29/19                  | PES        | 400                                  | 58.5            | 0.0227 U       | 3.12           | J          | 7.02        | 1.6     | 0.75   | 0.85                   | 0.378                  | 8,520  | 134    | 0.422 | U     |       |   |
|                            |                                  | 04/24/19                  | PES        | 393                                  | 56.2            | 0.0227 U       | 8.53           | 7.19       | 0.687       | 0.3     | 0.4    | 0.317                  | 6,940                  | 125    | 0.422  | U     |       |       |   |
| MW-145                     | 8th Ave N ROW                    | 04/27/18                  | PES        | 272                                  | 74.4            | 0.238          | 71.0           | 8.09       | J           | 42.9    | 0.0    | 42.9                   | 0.912                  | 2,050  | 0.296  | U     | 18.5  |       |   |
|                            |                                  | 01/29/19                  | PES        | 255                                  | 43.5            | 0.219          | 55.4           | 4.80       | 4.85        | 0.0     | 4.85   | 0.193                  | 276                    | 0.296  | U      | 0.422 | U     |       |   |
|                            |                                  | 04/26/19                  | PES        | 287                                  | 44.7            | 0.0227 U       | 73.9           | 5.29       | 5.73        | 0.0     | 5.7    | 0.318                  | 455                    | 1.73   |        | 5.24  |       |       |   |
| MW-147                     | Roy Street ROW                   | 05/01/18                  | PES        | 302                                  | 40.8            | 0.0227 U       | 183            | 21.3       | 17.1        | -       | -      | 0.564                  | 5,060                  | 10.7   | 144    |       |       |       |   |
|                            |                                  | 01/22/19                  | PES        | 302                                  | 56.2            | 0.0227 U       | 43.2           | 5.2        | 6.01        | 1.0     | 5.0    | 0.646                  | 4,210                  | 2.10   | 100    |       |       |       |   |
|                            |                                  | 04/23/19                  | PES        | 346                                  | 26.9            | 0.0227 U       | 28.1           | 13.7       | 4.39        | 1.5     | 2.9    | 0.787                  | 8,110                  | 0.296  | U      | 158   |       |       |   |

Table 6

**Groundwater Geochemical Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

| Sample Location           | Property                      | Sample Date | Sampled By | Alkalinity (mg CaCO <sub>3</sub> /L) | Chloride (mg/L) | Nitrate (mg/L) | Sulfate (mg/L) | TOC (mg/L) | Iron (mg/L) |         |        | Total Manganese (mg/L) | Dissolved Gases (µg/L) |         |         |
|---------------------------|-------------------------------|-------------|------------|--------------------------------------|-----------------|----------------|----------------|------------|-------------|---------|--------|------------------------|------------------------|---------|---------|
|                           |                               |             |            |                                      |                 |                |                |            | Total       | Ferrous | Ferric |                        | Methane                | Ethane  | Ethene  |
| MW-148                    | Roy Street ROW (dup)          | 05/01/18    | PES        | 170                                  | 22.2            | 0.0227 U       | 95.5           | 2.46       | 12.0        | 0.25    | 11.8   | 0.439                  | 1,210                  | 0.296 U | 0.422 U |
|                           |                               | 05/01/18    | PES        | 162                                  | 22.5            | 0.0227 U       | 96.1           | 2.53       | 11.2        | 0.25    | 11.0   | 0.379                  | 1,140                  | 0.296 U | 0.422 U |
|                           |                               | 01/23/19    | PES        | 151                                  | 17.7            | 0.0227 U       | 154            | 4.04       | 10.1        | -       | -      | 0.594                  | 1390                   | 0.296 U | 2.84    |
|                           |                               | 04/26/19    | PES        | 161                                  | 17.1            | 0.0227 U       | 175            | 5.19       | 2.91        | 0.4     | 2.5    | 0.420                  | 1,600                  | 0.296 U | 3.65    |
| MW-152                    | Property                      | 04/10/18    | PES        | 312                                  | 128             | 0.0227 U       | 15.0           | 13.2       | 0.210       | 0.00    | 0.21   | 0.386                  | 1,590                  | 41.1    | 1,830   |
|                           |                               | 12/14/18    | PES        | 299                                  | 181             | 0.0227 U       | 31.6           | 16.9       | 3.82        | 1.0     | 2.8    | 1.46                   | 3,710                  | 32.2    | 2,050   |
| Decommissioned March 2019 |                               |             |            |                                      |                 |                |                |            |             |         |        |                        |                        |         |         |
| MW-157                    | 8th Ave N ROW                 | 04/26/18    | PES        | 201                                  | 27.8            | 0.0227 U       | 4.51 J         | 2.86       | 1.02        | -       | -      | 0.209                  | 111                    | 0.779 J | 36.6    |
|                           |                               | 01/24/19    | PES        | 421                                  | 43.2            | 0.0227 U       | 24.1           | 12.9       | 5.25        | 3.0     | 2.3    | 1.17                   | 4,970                  | 37.4    | 124     |
|                           |                               | 04/24/19    | PES        | 513                                  | 34.1            | 0.0227 U       | 95.0           | 39.5       | 9.40        | 3.0     | 6.4    | 2.13                   | 5,510                  | 36.0    | 119     |
| W-MW-01                   | 8th Ave N ROW                 | 03/30/17    | PES        | 211                                  | 23.8            | 0.023 U        | 29.0           | 1.84       | 18.2        | 0.25    | 18.0   | 0.542                  | 367                    | 0.757 J | 1.27 J  |
|                           |                               | 06/19/17    | PES        | 250                                  | 27.6            | 0.0727 J       | 28.3           | 3.00       | 9.48        | -       | -      | 0.321                  | 461                    | 0.296 U | 0.42 U  |
|                           |                               | 04/13/18    | PES        | 214                                  | 26.8            | 0.0227 U       | 61.4           | 2.95       | 20.4        | 0.8     | 19.6   | 0.717                  | 702                    | 5.81    | 7.55    |
|                           |                               | 01/25/19    | PES        | 235                                  | 31.7            | 0.0227 UJ      | 56.9           | 7.93       | 11.1        | 1.5     | 9.6    | 0.552                  | 291                    | 2.43    | 3.41    |
| W-MW-02                   | 8th Ave N ROW                 | 12/16/13    | SES        | 240                                  | 105             | 0.025 U        | 101            | -          | 0.672       | 0.87    | 0      | 0.676                  | 8.91                   | 5 U     | 5 U     |
|                           |                               | 03/27/17    | PES        | 455                                  | 142             | 0.0227 UJ      | 0.0774 U       | 204        | 47.5        | 1.75    | 45.8   | 4.12                   | 6,740                  | 0.296 U | 8.32    |
|                           |                               | 06/19/17    | PES        | 520                                  | 103             | 0.0227 UJ      | 0.0774 U       | 116        | 33.7        | 1.5     | 32.2   | 2.98                   | 16,900                 | 0.296 U | 3.71    |
|                           |                               | 06/12/18    | PES        | 854                                  | 77.9            | 0.0227 R       | 0.0774 U       | 97.7       | 21.1        | 3.4     | 17.7   | 3.45                   | 23,800                 | 14.3    | 57.9    |
|                           |                               | 01/25/19    | PES        | 876                                  | 91              | 0.0665 J       | 0.0774 U       | 33.7       | 20.8        | 2.0     | 18.8   | 3.71                   | 11,300                 | 0.67 J  | 0.422 U |
|                           |                               | 04/23/19    | PES        | 799                                  | 86.7            | 0.0227 U       | 0.0774 U       | 26.1       | 13.4        | 0.5     | 12.9   | 3.43                   | 10,600                 | 45.2    | 37.4    |
| <b>Deep Zone</b>          |                               |             |            |                                      |                 |                |                |            |             |         |        |                        |                        |         |         |
| FMW-129                   | SDOT Property S of Roy        | 04/10/17    | PES        | 308                                  | 44.2            | 0.0227 U       | 124            | 2.74       | 0.365       | 0.00    | 0.365  | 0.402                  | 279                    | 26.8    | 0.422 U |
|                           |                               | 06/23/17    | PES        | 296                                  | 36.1            | 0.0914 J       | 95.5           | 1.70       | 9.92        | 1.00    | 8.92   | 0.412                  | 276                    | 14.7    | 0.422 U |
| FMW-131                   | Block 37                      | 03/24/17    | PES        | 166                                  | 6.12            | 0.0227 U       | 0.738          | 2.18       | 0.598       | 0.5     | 0.098  | 1.03                   | 159                    | 1.19 J  | 0.422 U |
|                           |                               | 06/23/17    | PES        | 273                                  | 28.1            | 0.109          | 29.2           | 1.56       | 2.39        | 0.3     | 2.14   | 1.26                   | 87.4                   | 0.296 U | 0.422 U |
| GEI-2                     | Block 37                      | 03/24/17    | PES        | 420                                  | 12.5            | 0.0227 U       | 0 U            | 8.14       | 24.0        | 0.25    | 23.8   | 0.898                  | 15.1                   | 0.296 U | 0.422 U |
|                           |                               | 06/23/17    | PES        | 458                                  | 23.0            | 0.0227 U       | 0 U            | 6.84       | 14.9        | 1.00    | 13.9   | 0.483                  | 10,500                 | 23.8    | 42.5    |
| MW102                     | Valley Street ROW             | 04/25/18    | PES        | 160                                  | 4.99            | 0.0315 J       | 0.880 J        | 1.94       | 9.60        | 1.00    | 8.60   | 0.414                  | 0.561                  | 0.296 U | 0.422 U |
|                           |                               | 01/24/19    | PES        | 162                                  | 5.19            | 0.0553 J       | 1.74 J         | 4.36       | 6.46        | 0.0     | 6.46   | 0.363                  | 172                    | 0.296 U | 0.422 U |
|                           |                               | 05/01/19    | PES        | 173                                  | 5.39            | 0.0227 U       | 0.318 J        | 3.75       | 11.9        | 0.5     | 11.4   | 0.405                  | 255                    | 1.07 J  | 0.422 U |
| MW103                     | Alley Between 8th & 9th Ave N | 12/18/13    | SES        | 380                                  | 48.8            | 0.025 U        | 0.99           | -          | 1.14        | 1.39    | 0      | 1.10                   | 67.5                   | 9.14    | 13.5    |
|                           |                               | 03/23/17    | PES        | 337                                  | 48.4            | 0.0227 U       | 36.3           | 1.97       | 1.68        | 0.25    | 1.43   | 1.09                   | 433                    | 82.5    | 34.1    |
|                           |                               | 06/14/17    | PES        | 339                                  | 34.7            | 0.0227 U       | 28.1           | 2.58       | 4.56        | -       | -      | 0.936                  | 863                    | 84.6    | 43.1    |
| MW104                     | 8th Ave N ROW                 | 12/17/13    | SES        | 310                                  | 28.9            | 0.025 U        | 23.1           | -          | 5.45        | 5.03    | 0.42   | 0.757                  | 25.4                   | 5 U     | 5 U     |
|                           |                               | 03/30/17    | PES        | 253                                  | 36.0            | 0.0227 U       | 18.8           | 3.44       | 0.487       | -       | -      | 0.178                  | 170                    | 3.35    | 2.71    |
|                           |                               | 06/30/17    | PES        | 218                                  | 11.7            | 0.0227 U       | 6.05           | 1.68       | 1.77        | 0.0     | 1.8    | 0.360                  | 40.6                   | 0.296 U | 0.422 U |
|                           |                               | 04/09/18    | PES        | 224                                  | 17.2            | 0.0227 U       | 0.594 J        | 7.13 J     | 0.793       | 0.3     | 0.49   | 0.263                  | 398                    | 0.296 U | 5.71    |
|                           |                               | 02/01/19    | PES        | 79.8                                 | 6.74            | 0.0227 U       | 5.50           | 6.72       | 37.0        | 0.0     | 37.0   | 0.656                  | 605                    | 2.41    | 29.4    |
|                           |                               | 04/23/19    | PES        | 196                                  | 18.6            | 0.0227 U       | 5.96           | 5.97       | 5.03        | 0.0     | 5.0    | 0.285                  | 437                    | 2.60    | 17.7    |
| MW105                     | Roy Street ROW                | 12/29/13    | SES        | 440                                  | 48.3            | 0.716          | 29.3           | -          | 2.91        | 2.0     | 0.9    | 1.24                   | 44.5                   | 5 U     | 6.14    |
|                           |                               | 04/11/18    | PES        | 257                                  | 35.7            | 0.0227 U       | 9.48           | 3.27       | 5.70        | 0.75    | 4.95   | 0.799                  | 2,700                  | 4.41    | 0.422 U |
|                           |                               | 01/23/19    | PES        | 210                                  | 28.1            | 0.0227 U       | 11.0           | 1.96       | 13.8        | -       | -      | 0.809                  | 286                    | 0.296 U | 4.19    |
|                           |                               | 04/23/19    | PES        | 275                                  | 37.9            | 0.0227 U       | 5.81           | 4.06       | 5.27        | 0.5     | 4.8    | 0.893                  | 1,660                  | 0.296 U | 0.422 U |
| MW106                     | SDOT Property S of Roy        | 04/14/17    | PES        | 309                                  | 28.7            | 0.0227 U       | 17.9           | 5.93       | 14.1        | 0.0     | 14.1   | 1.08                   | 79.5                   | 0.296 U | 2.62    |
|                           |                               | 06/30/17    | PES        | 305                                  | 27.3            | 0.0227 U       | 18.0           | 10.0       | 4.96        | 0.0     | 5.0    | 0.779                  | 38.7                   | 0.296 U | 0.442 U |

**Table 6**

**Groundwater Geochemical Parameters  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

| Sample Location  | Property           | Sample Date               | Sampled By | Alkalinity (mg CaCO <sub>3</sub> /L) | Chloride (mg/L) | Nitrate (mg/L) | Sulfate (mg/L) | TOC (mg/L) | Iron (mg/L) |         |        | Total Manganese (mg/L) | Dissolved Gases (µg/L) |         |         |
|--|--------------------|---------------------------|------------|--------------------------------------|-----------------|----------------|----------------|------------|-------------|---------|--------|------------------------|------------------------|---------|---------|
|  |                    |                           |            |                                      |                 |                |                |            | Total       | Ferrous | Ferric |                        | Methane                | Ethane  | Ethene  |
| MW106  |                    | 05/04/18                  | PES        | 283                                  | 25.0            | 0.0227 U       | 10.4           | 1.74       | 0.164       | 0.0     | 0.16   | 0.496                  | 77.8                   | 0.296 U | 10.8    |
|  |                    | 04/26/19                  | PES        | 267                                  | 23.6            | 0.0227 U       | 15.9           | 3.32       | 3.42        | 0.0     | 3.4    | 0.695                  | 42.1                   | 0.296 U | 0.422 U |
| MW113  | 9th Ave N ROW      | 12/19/13                  | SES        | 96                                   | 23.5            | 0.280          | 17.4           | -          | 0.119       | 0.03    | 0.09   | 0.0248                 | 5 U                    | 5 U     | 5 U     |
|  |                    | 03/22/17                  | PES        | 594                                  | 65.5            | 0.0295 J       | 55.4           | 27.0       | 7.46        | 4.0     | 3.46   | 0.757                  | 3.53                   | 0.296 U | 0.422 U |
|  |                    | 06/16/17                  | PES        | 587                                  | 57.5            | 0.0227 U       | 41.9           | 18.0       | 14.4        | 1.5     | 12.9   | 0.990                  | 6,520                  | 147     | 0.422 U |
|  |                    | 02/07/19                  | PES        | 551                                  | 43.9            | 0.0389 J       | 33.3           | 18.8       | 6.1         | 2.5     | 3.6    | 0.659                  | 4,050                  | 39.9    | 6.30    |
| MW124  | Valley Street ROW  | 12/26/13                  | SES        | 160                                  | 5.96            | 1.22           | 0.730          | -          | 1.46        | 0.390   | 1.07   | 0.125                  | 5 U                    | 5 U     | 5 U     |
|  |                    | 04/13/18                  | PES        | 162                                  | 4.47            | 0.0227 U       | 0.46 J         | 2.45       | 20.1        | 0.5     | 19.6   | 0.757                  | 24.6                   | 0.296 U | 0.422 U |
| MW128  | Westlake Ave N ROW | 03/29/17                  | PES        | 387                                  | 15.9            | 0.0227 U       | 0.0774 U       | 4.84       | 10.5        | 1.8     | 8.7    | 0.227                  | 12,600                 | 13.2    | 64.8    |
|  |                    | 06/21/17                  | PES        | 1,050                                | 24.6            | 0.0227 U       | 0.0774 U       | 7.81       | 23.0        | -       | -      | 0.704                  | 19,600                 | 33.4    | 45.1    |
| MW-133   | Property           | 04/25/18                  | PES        | 173                                  | 9.91            | 0.287          | 1.43 J         | 2.84       | 4.80        | 1.25    | 3.55   | 0.297                  | 549                    | 5.77    | 17.4    |
|  |                    | Decommissioned March 2019 |            |                                      |                 |                |                |            |             |         |        |                        |                        |         |         |
| MW-137   | Property           | 04/12/18                  | PES        | 213                                  | 109.0           | 0.0227 R       | 10.8           | 2.90       | 218         | 0.75    | 217    | 4.41                   | 1,600                  | 0.296 U | 4.47    |
|  |                    | Decommissioned March 2019 |            |                                      |                 |                |                |            |             |         |        |                        |                        |         |         |
| MW-138   | Dexter Ave N ROW   | 04/11/18                  | PES        | 143                                  | 13.8            | 0.0227 U       | 45.9           | 4.89 J     | 21.5        | 0.00    | 21.5   | 0.725                  | 83.1                   | 0.296 U | 0.422 U |
|  |                    | 01/03/19                  | PES        | 125                                  | 14.1            | 0.0227 U       | 47.5           | 3.90       | 2.19        | 0.00    | 2.2    | 0.375                  | 61.3                   | 0.621 J | 0.573 J |
|  |                    | 04/22/19                  | PES        | 139                                  | 14.2            | 0.0227 U       | 42.7           | 5.70       | 13.2        | -       | -      | 0.509                  | 164                    | 0.296 U | 1.43    |
| MW-140   | Roy Street ROW     | 04/12/18                  | PES        | 249                                  | 15.5            | 0.0227 R       | 5.73           | 2.40       | 15.0        | 0.30    | 14.7   | 0.795                  | 261                    | 0.296 U | 0.422 U |
|  |                    | Decommissioned            |            |                                      |                 |                |                |            |             |         |        |                        |                        |         |         |
| MW-141   | Property           | 04/12/18                  | PES        | 179                                  | 9.64            | 0.0227 R       | 7.49           | 4.30       | 4.61        | -       | -      | 0.556                  | 2,690                  | 3.29    | 0.869 J |
|  |                    | Decommissioned March 2019 |            |                                      |                 |                |                |            |             |         |        |                        |                        |         |         |
| MW-153<br><br>(dup)  | Roy Street ROW     | 05/01/18                  | PES        | 148                                  | 24              | 0.0227 U       | 23.7           | 1.26       | 1.01        | -       | -      | 0.187                  | 74.3                   | 0.296 U | 0.422 U |
|  |                    | 01/22/19                  | PES        | 156                                  | 9.91            | 0.0227 U       | 13.2           | 1.92       | 3.01        | 0.0     | 3.0    | 0.299                  | 387                    | 0.296 U | 4.89    |
|  |                    | 04/24/19                  | PES        | 174                                  | 9.4             | 0.0227 U       | 9.23           | 3.86       | 3.60 J      | 0.0     | 3.6    | 0.385                  | 412                    | 0.296 U | 1.79    |
|  |                    | 04/24/19                  | PES        | 170                                  | 9.16            | 0.0227 U       | 8.91           | 4.62       | 1.59 J      | 0.0     | 1.6    | 0.305                  | 434                    | 0.296 U | 0.422 U |
| MW-158A  | 8th Ave N ROW      | 04/30/18                  | PES        | 345                                  | 113             | 0.446          | 278            | 54.8       | 55.4        | 0.50    | 54.9   | 1.04                   | 352                    | 15.7    | 11.0    |
|  |                    | 01/24/19                  | PES        | 329                                  | 29.7            | 0.0227 U       | 26.8           | 7.95       | 181         | 0.0     | 181    | 3.07                   | 196                    | 2.52    | 8.12    |
|  |                    | 04/25/19                  | PES        | 345                                  | 26.7            | 0.0227 U       | 21.1           | 8.11       | 12.4 J      | -       | -      | 0.393 J                | 177                    | 0.296 U | 4.74    |
| MW-160   | 8th Ave N ROW      | 05/21/18                  | PES        | 186                                  | 10.7            | 0.0703 J       | 2.68 J         | 1.47       | 12.3        | 0.0     | 12.3   | 0.400                  | 129                    | 14.5    | 4.75    |
|  |                    | 01/25/19                  | PES        | 134                                  | 10.7            | 0.0227 U       | 1.87 J         | 3.98       | 59.1        | 0.5     | 58.6   | 1.22                   | 766                    | 11.7    | 0.422 U |
|  |                    | 05/01/19                  | PES        | 197                                  | 10.5            | 0.0227 U       | 1.26 J         | 3.79       | 4.6         | 0.0     | 4.6    | 0.387                  | 1,070                  | 4.41    | 0.422 U |
|  |                    | Decommissioned March 2019 |            |                                      |                 |                |                |            |             |         |        |                        |                        |         |         |
| MW-161   | 8th Ave N ROW      | 05/21/18                  | PES        | 294                                  | 25.0            | 0.0227 U       | 13.5           | 1.49       | 9.37        | 0.0     | 9.4    | 0.758                  | 53.4                   | 2.64    | 0.979 J |
|  |                    | 01/25/19                  | PES        | 282                                  | 25.5            | 0.0227 UJ      | 13.4           | 4.52       | 7.34        | 0.0     | 7.3    | 0.784                  | 69.0                   | 0.296 U | 0.422 U |
|  |                    | 05/01/19                  | PES        | 293                                  | 25.5            | 0.0227 U       | 12.2           | 1.58       | 5.73        | 0.0     | 5.7    | 0.795                  | 98.1                   | 0.296 U | 0.422 U |
|  |                    | Decommissioned March 2019 |            |                                      |                 |                |                |            |             |         |        |                        |                        |         |         |
| <p><b>NOTES:</b></p> <p>1. mg/L = milligrams per liter<br/>                 2. ug/L = micrograms per liter<br/>                 3. mgCaCO<sub>3</sub>/L= milligrams of calcium carbonate per liter<br/>                 4. µS/cm = microSiemens per centimeter<br/>                 5. mV = millivolts<br/>                 6. ORP = oxidation-reduction potential</p> <p>7. &lt; = not detected at concentration<br/>                 8. Ferric iron = total iron minus ferrous iron; if total iron &lt; ferrous iron, ferric iron is reported as 0<br/>                 9. PES = PES Environmental, Inc.<br/>                 10. SES = SoundEarth Strategies, Inc.<br/>                 11. Q = Sample was prepared and/or analyzed past recommended holding time.<br/>                 12. V = The sample concentration is too high to evaluate accurate spike recoveries.</p> |                    |                           |            |                                      |                 |                |                |            |             |         |        |                        |                        |         |         |



**Table 7**

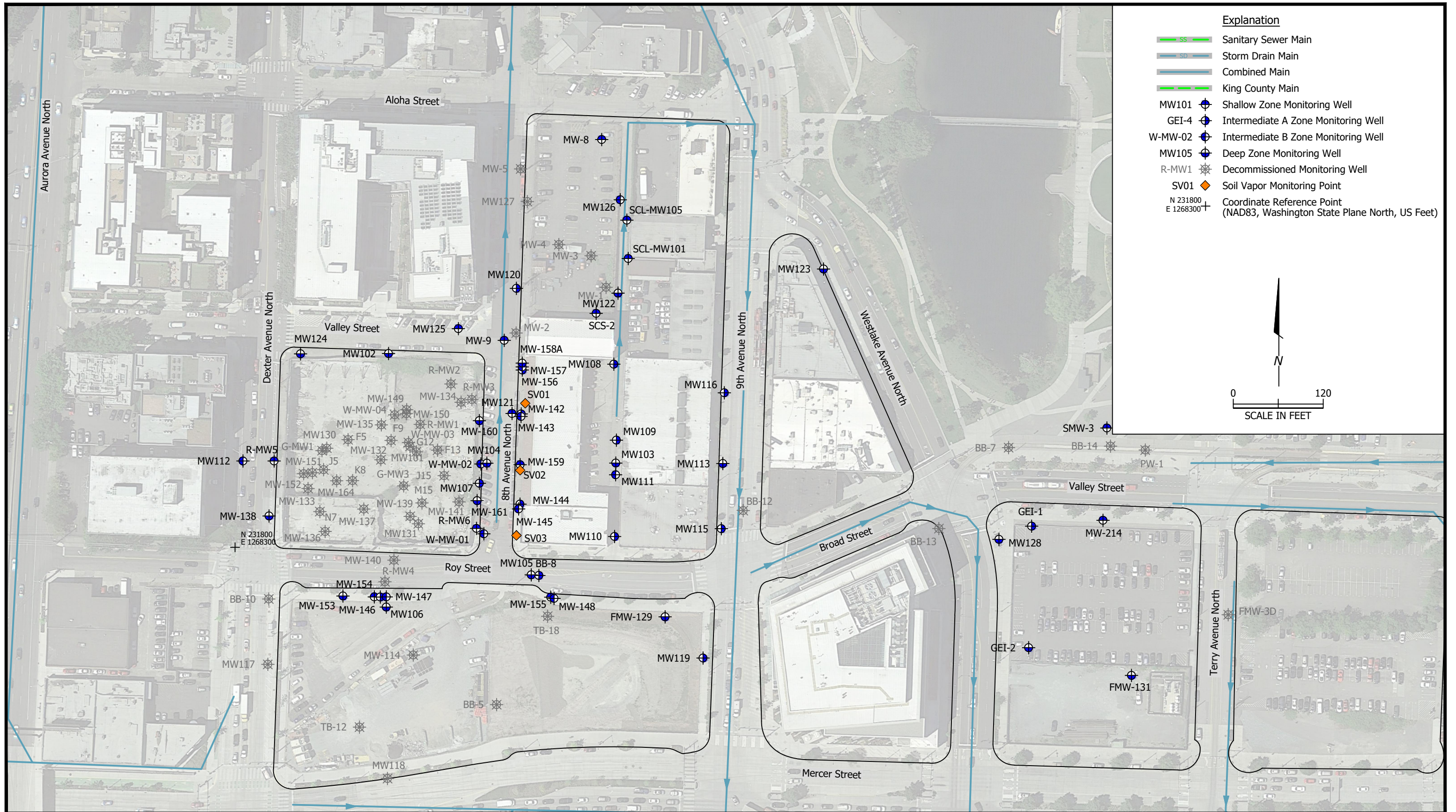
**Soil Vapor Analytical Results  
Former American Linen Supply  
700 Dexter Avenue North Seattle, Washington**

| Sample Location                               | Sample Name   | Sample Date | Analytical Results (micrograms per cubic meter) |          |             |   |             |   |      |   |             |   |
|---|---------------|-------------|---|----------|-------------|---|-------------|---|------|---|-------------|---|
|   |               |             | PCE   |          | TCE         |   | cDCE        |   | tDCE |   | VC          |   |
| <b>MTCA Method B Soil Gas Screening Level</b> |               |             | <b>321</b>                                      |          | <b>12</b>   |   | –           |   | –    |   | <b>9.3</b>  |   |
| SV01  | SV01-20130311 | 03/05/13    | <b>1.5</b>                                      |          | 0.16        | U | <b>0.31</b> |   | 0.58 | U | <b>0.71</b> |   |
|   | SV01-092518   | 09/25/18    | 2.72  | UJ       | 2.14        | U | 1.59        | U | 1.59 | U | 1.02        | U |
|   | SV01-092518-D | 09/25/18    | <b>137</b>                                      | <b>J</b> | 2.14        | U | 1.59        | U | 1.59 | U | 1.02        | U |
|   | SV01-020619   | 02/06/19    | 2.72  | U        | 2.14        | U | 1.59        | U | 1.59 | U | 1.02        | U |
|   | SV01-042919   | 04/29/19    | 2.72  | U        | 2.14        | U | 1.59        | U | 1.59 | U | 1.02        | U |
|   | SV01-042919-D | 04/29/19    | 2.72  | U        | 2.14        | U | 1.59        | U | 1.59 | U | 1.02        | U |
| SV02  | SV02-20130311 | 03/05/13    | <b>2.3</b>                                      |          | 0.17        | U | 0.12        | U | 0.61 | U | 0.04        | U |
|   | SV02-092518   | 09/25/18    | 2.72  | U        | 2.14        | U | 1.59        | U | 1.59 | U | 1.02        | U |
|   | SV02-020619   | 02/06/19    | 2.72  | U        | 2.14        | U | 1.59        | U | 1.59 | U | 1.02        | U |
|   | SV02-042919   | 04/29/19    | 2.72  | U        | 2.14        | U | 1.59        | U | 1.59 | U | 1.02        | U |
| SV03  | SV03-20130311 | 03/05/13    | <b>4.6</b>                                      |          | <b>0.39</b> |   | 0.12        | U | 0.58 | U | 0.037       | U |
|   | SV03-092518   | 09/25/18    | 2.72  | U        | 2.14        | U | 1.59        | U | 1.59 | U | 1.02        | U |
|   | SV03-020619   | 02/06/19    | 2.72  | U        | 2.14        | U | 1.59        | U | 1.59 | U | 1.02        | U |
|   | SV03-042919   | 04/29/19    | 2.72  | U        | 2.14        | U | 1.59        | U | 1.59 | U | 1.02        | U |

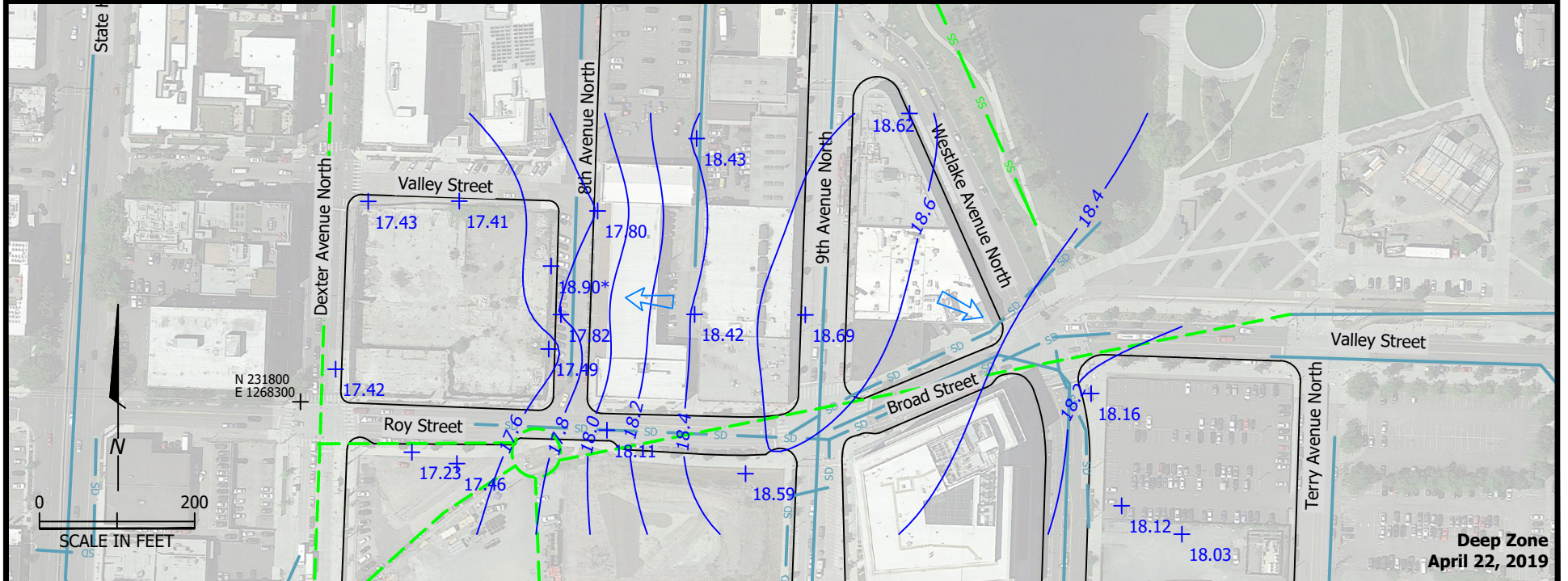
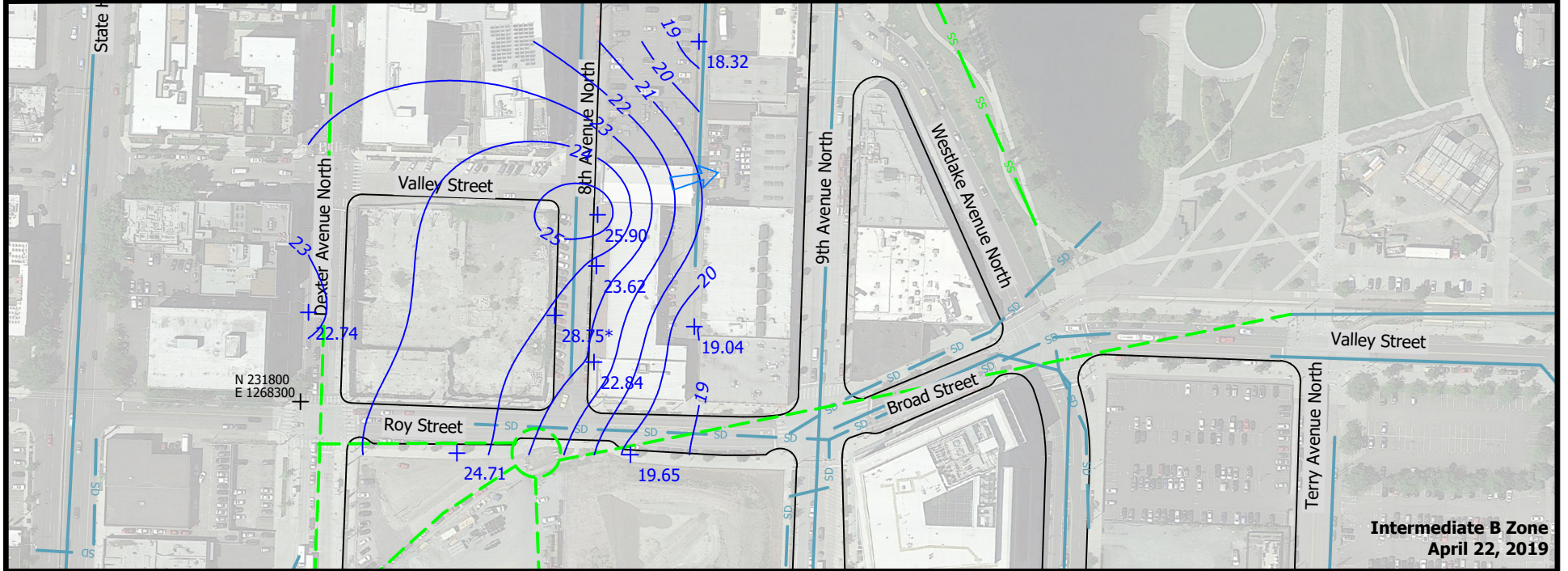
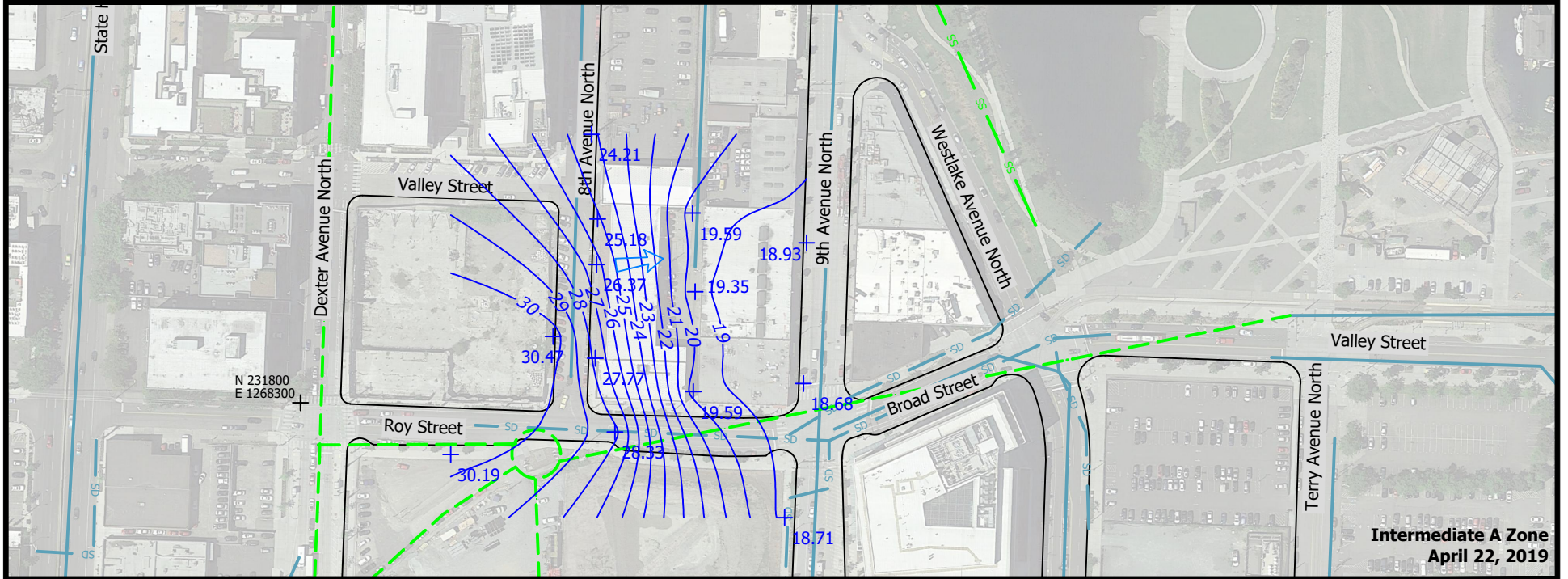
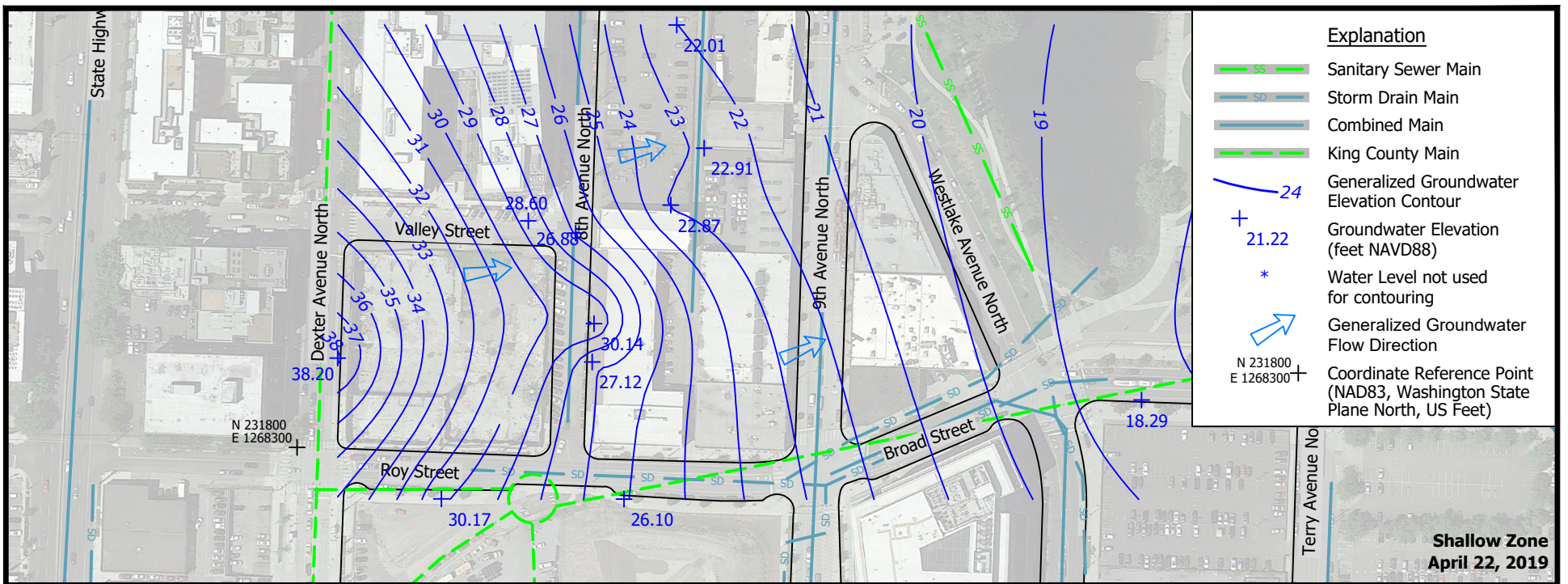
**Notes:**

|   |   |
|---|---|
| 1. Laboratory analyses conducted by Air Toxics Ltd. of Folsom, CA (2013 samples) and Pace Analytical of Mount Juliet, TN (2018 samples) | 6. tDCE = trans-1,2-dichloroethene  |
| 2. VOCs analyzed by U.S. Environmental Protection Agency Method Modified TO-15 Low Level Analysis.                                      | 7. VC = vinyl chloride  |
| 3. PCE = perchloroethylene (tetrachloroethene)  | 8. Detected results shown in bold, detections exceeding MTCA Method B sub-slab screening levels highlighted in gray |
| 4. TCE = trichloroethene  | 9. U = not detected at a concentration exceeding laboratory reporting limit   |
| 5. cDCE = cis-1,2-dichloroethene  | 10. MTCA = Washington State Model Toxics Control Act  |
|   | 11. – = screening level not established   |









**Groundwater Elevation Contours**  
April 22, 2019  
Former American Linen Supply  
700 Dexter Avenue North  
Seattle, Washington

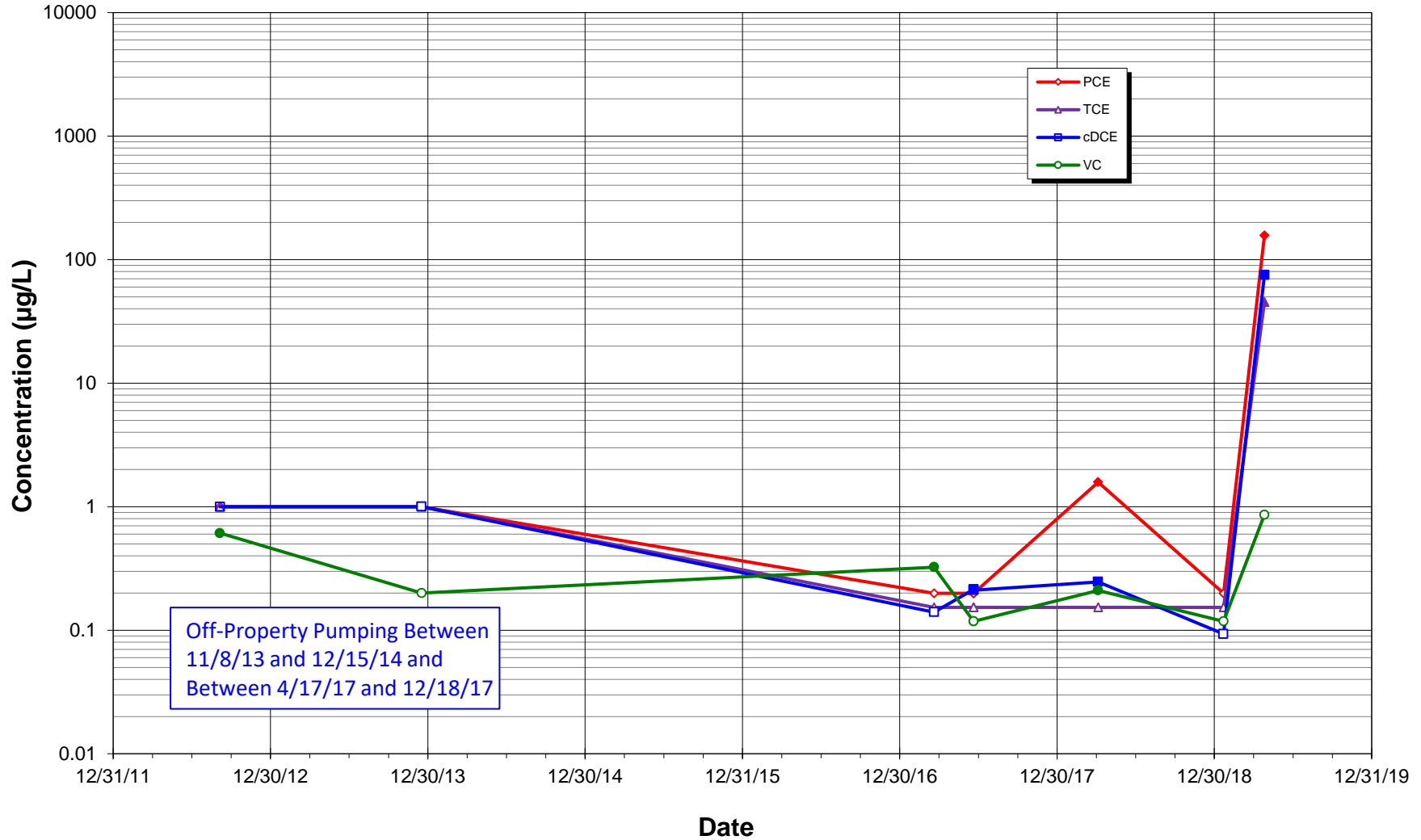
FIGURE

2



**Attachment A**  
**Shallow Well Time-Trend Plots**

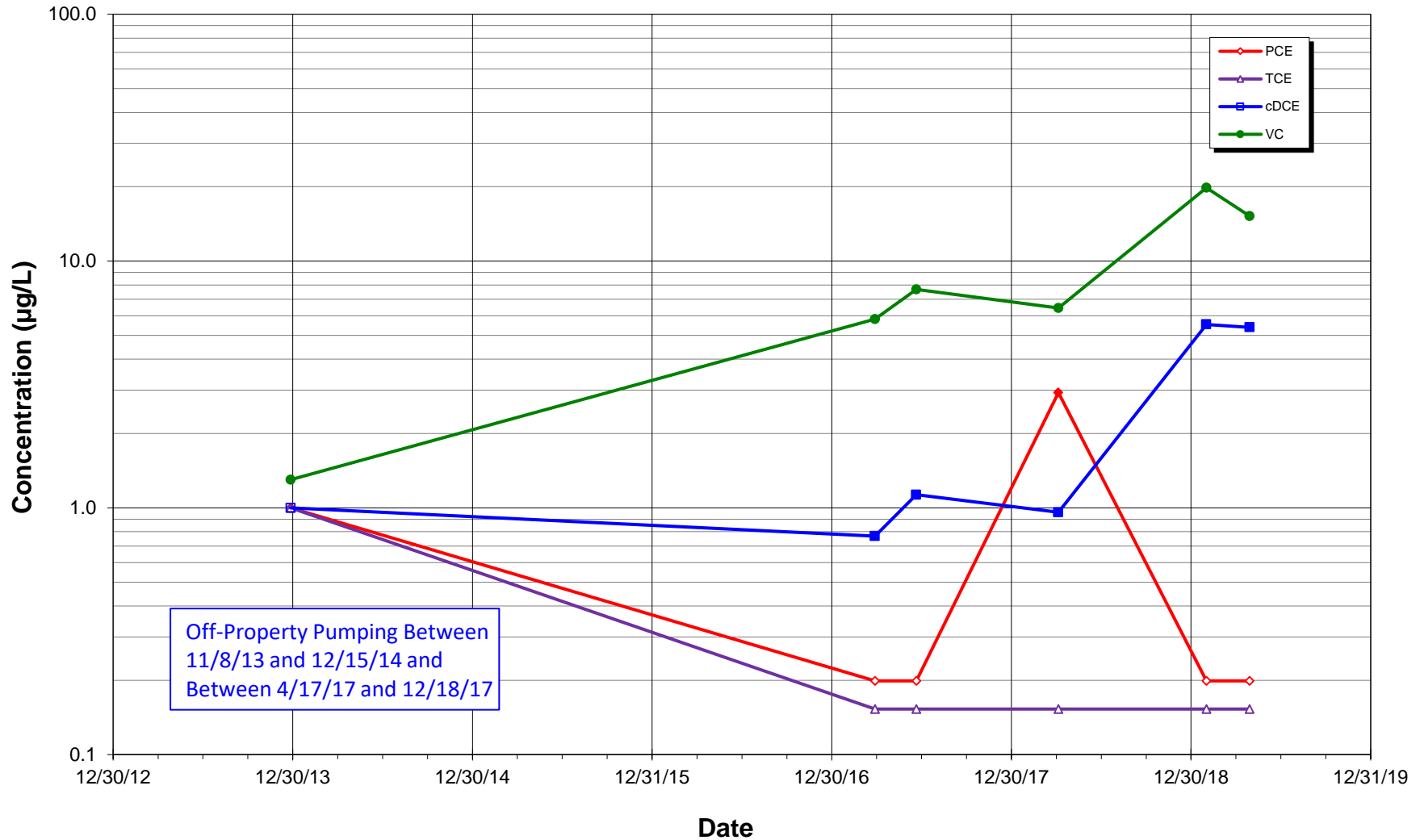
**Concentration vs Time  
MW-9  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

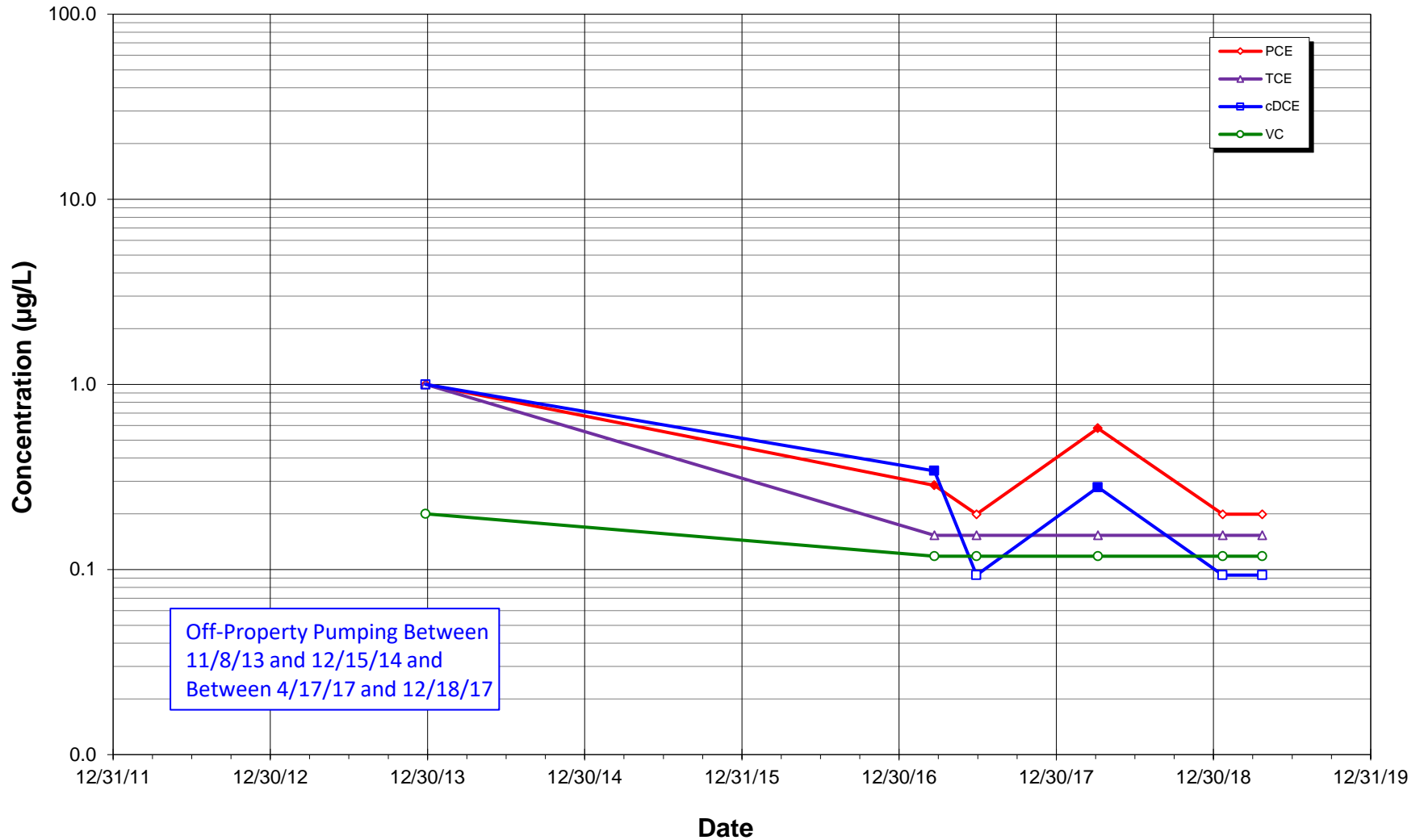
**Concentration vs Time**  
**MW121**  
**Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

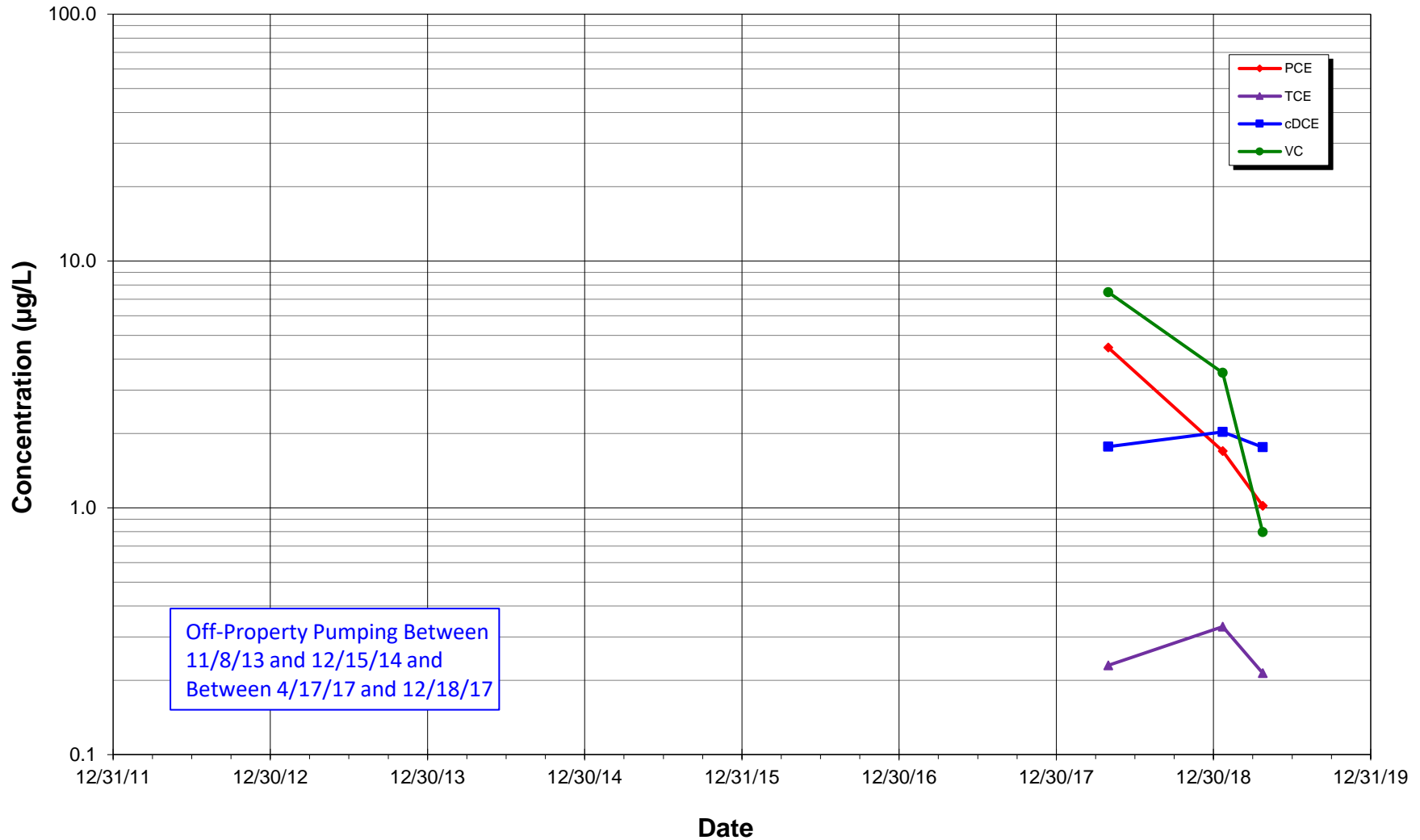
**Concentration vs Time  
MW125  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time  
MW-154  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

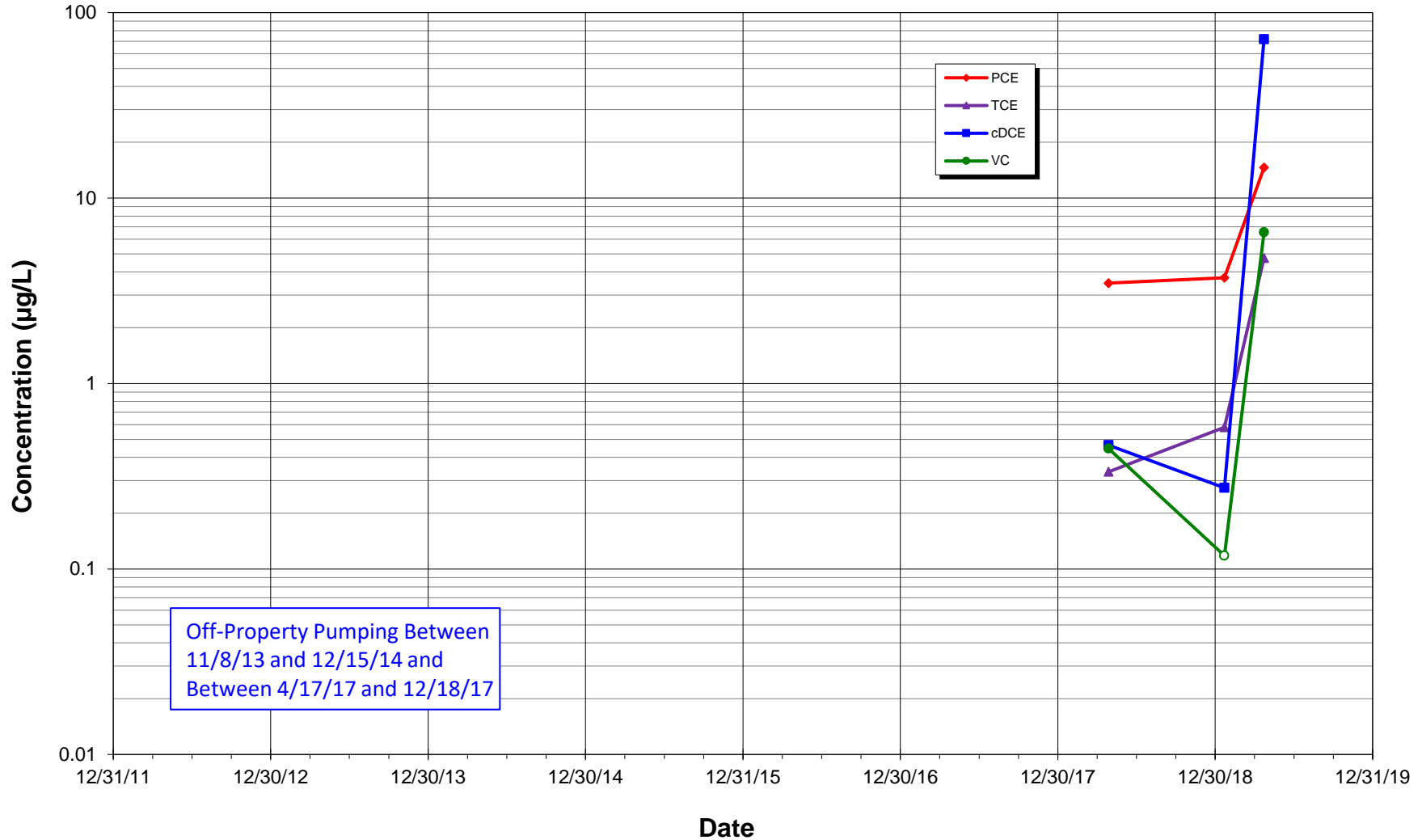


**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.



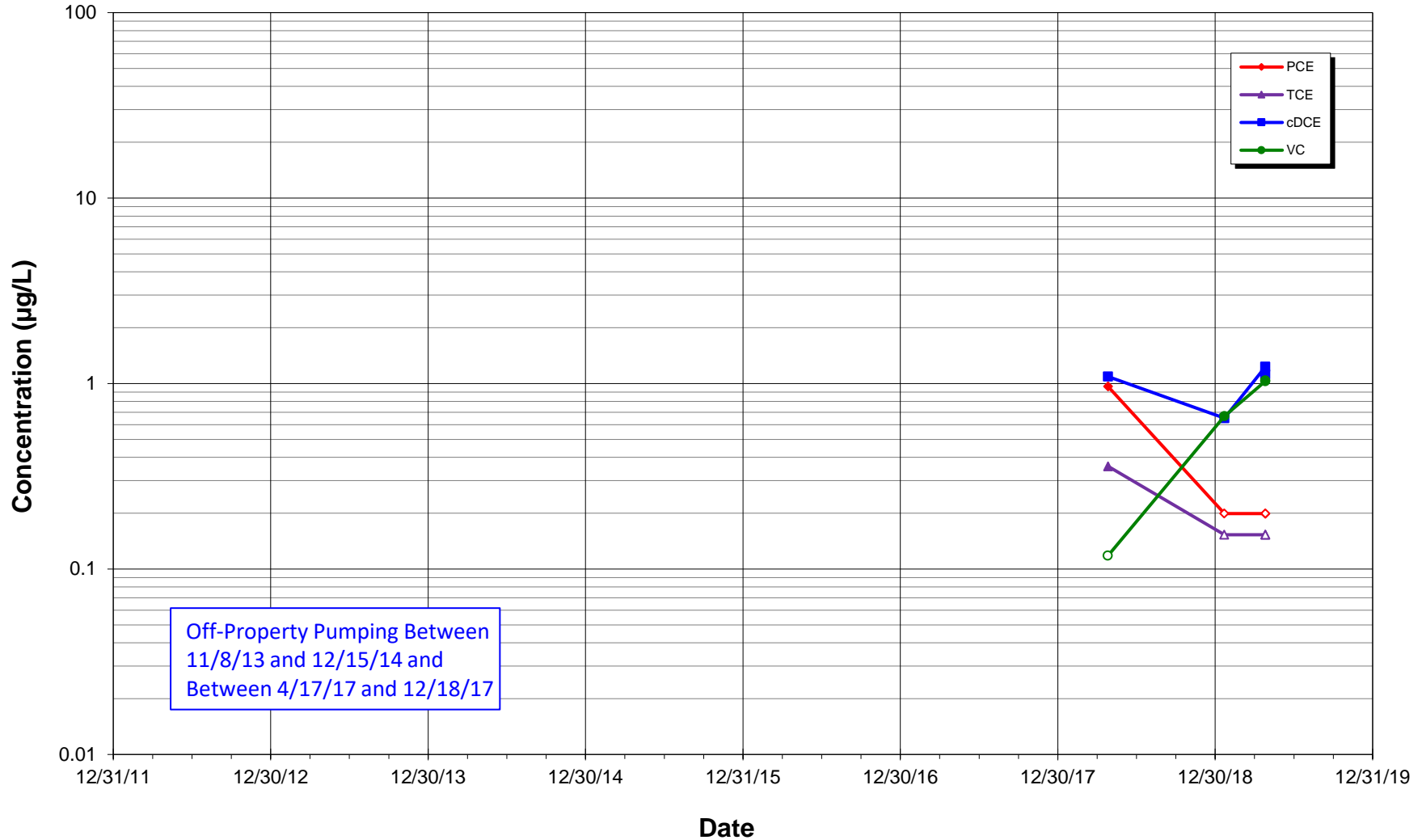
**Concentration vs Time  
MW-155  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

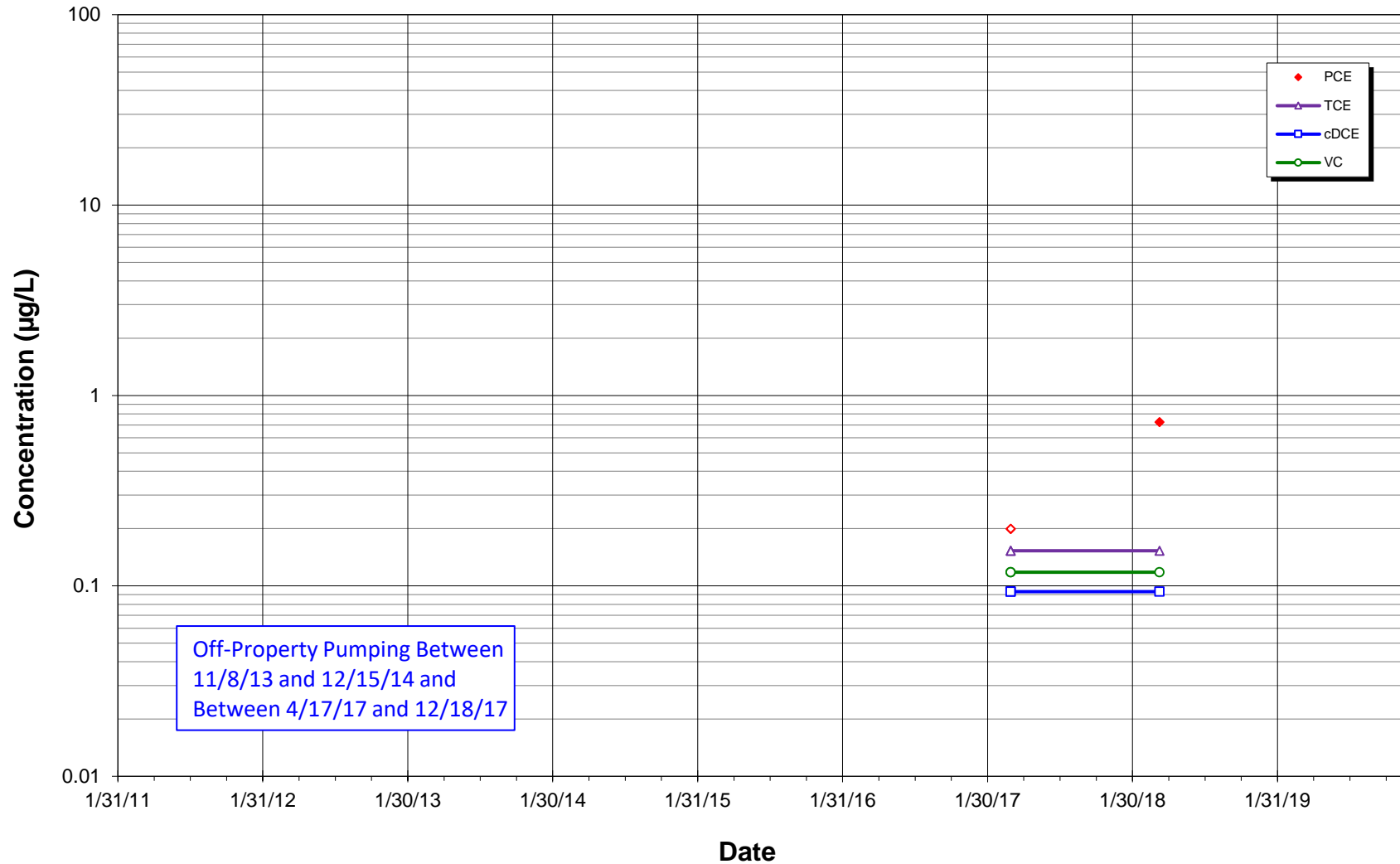
**Concentration vs Time**  
**MW-159**  
**Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

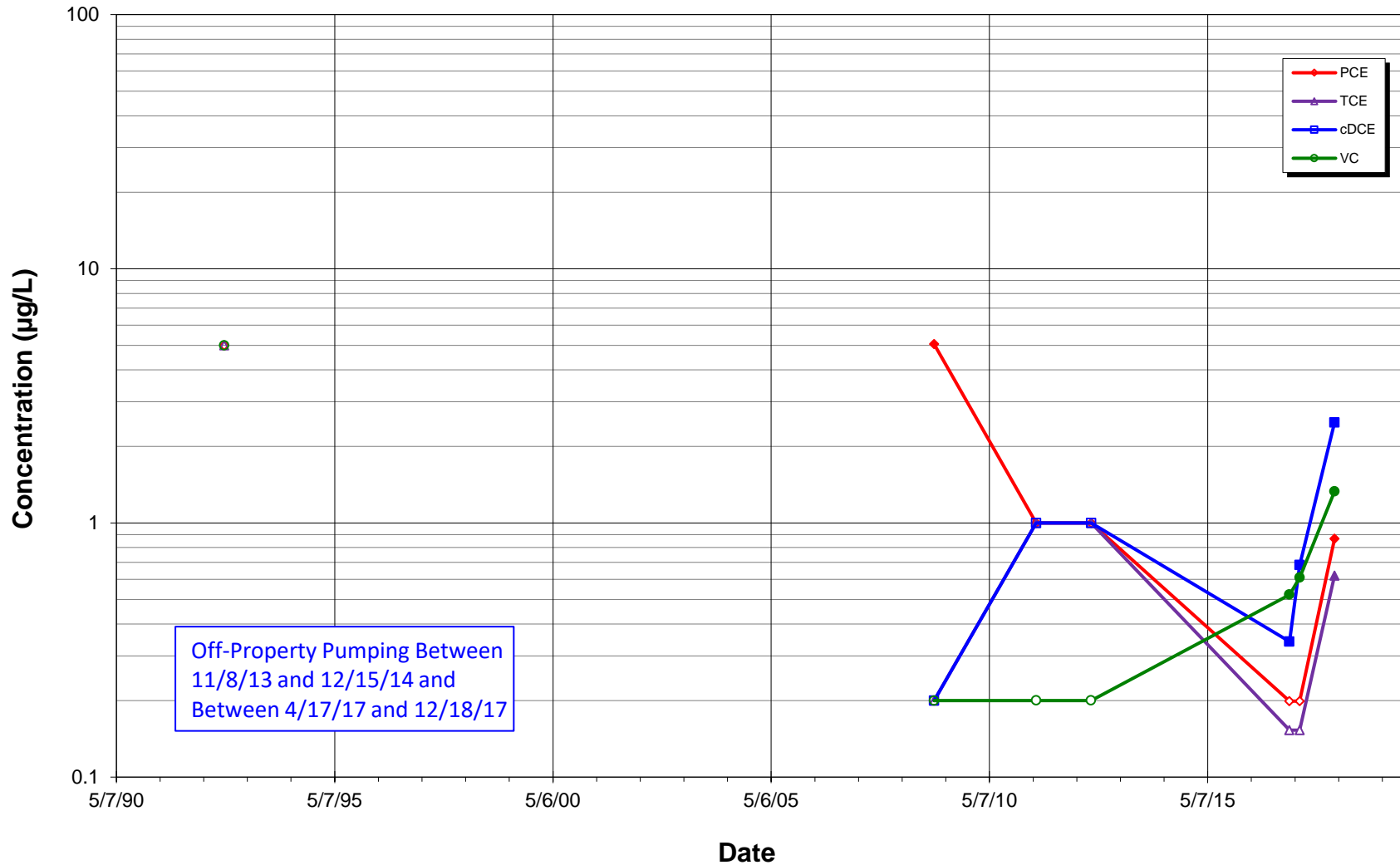
**Concentration vs Time**  
**MW-214**  
**Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

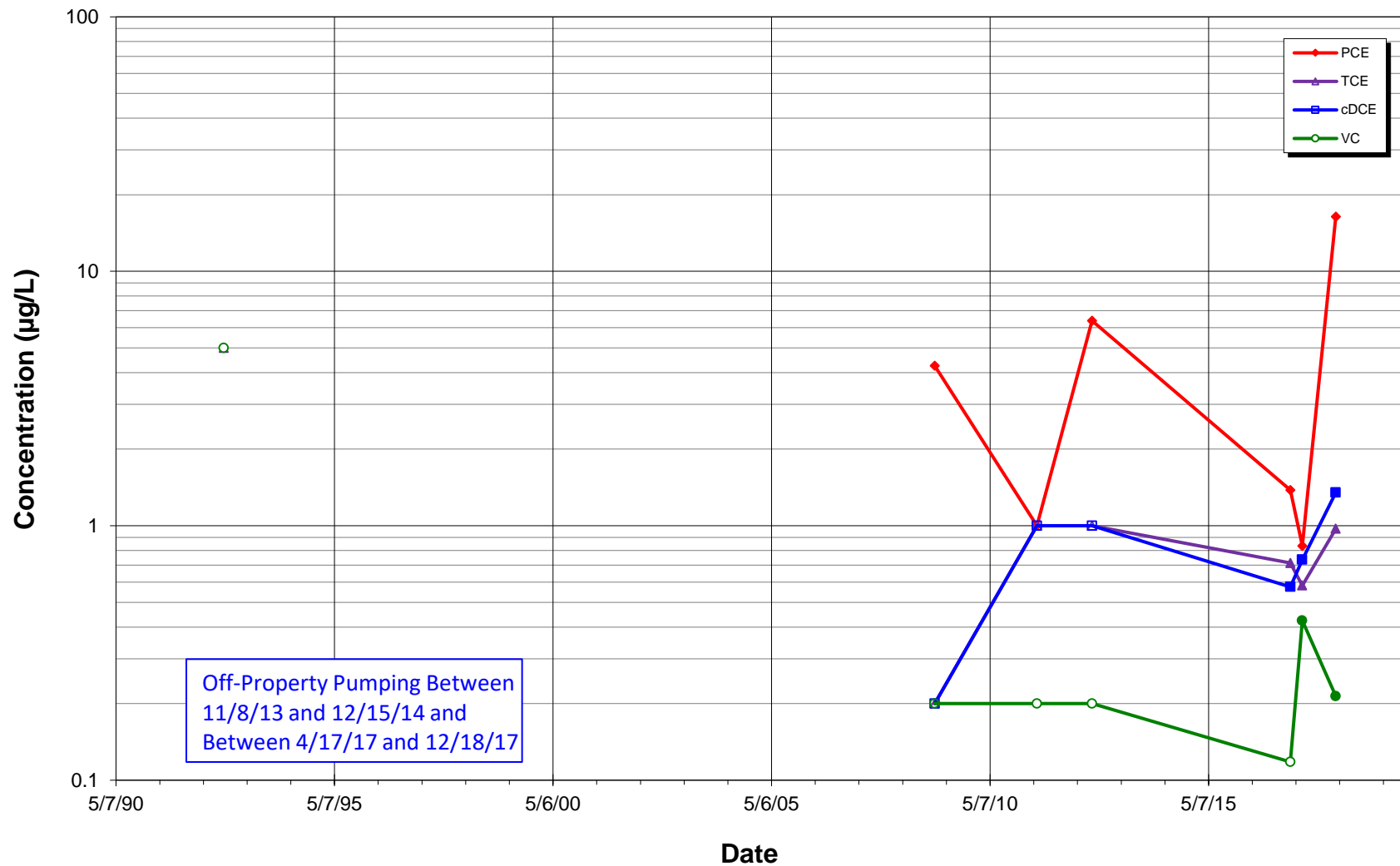
**Concentration vs Time  
R-MW2  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

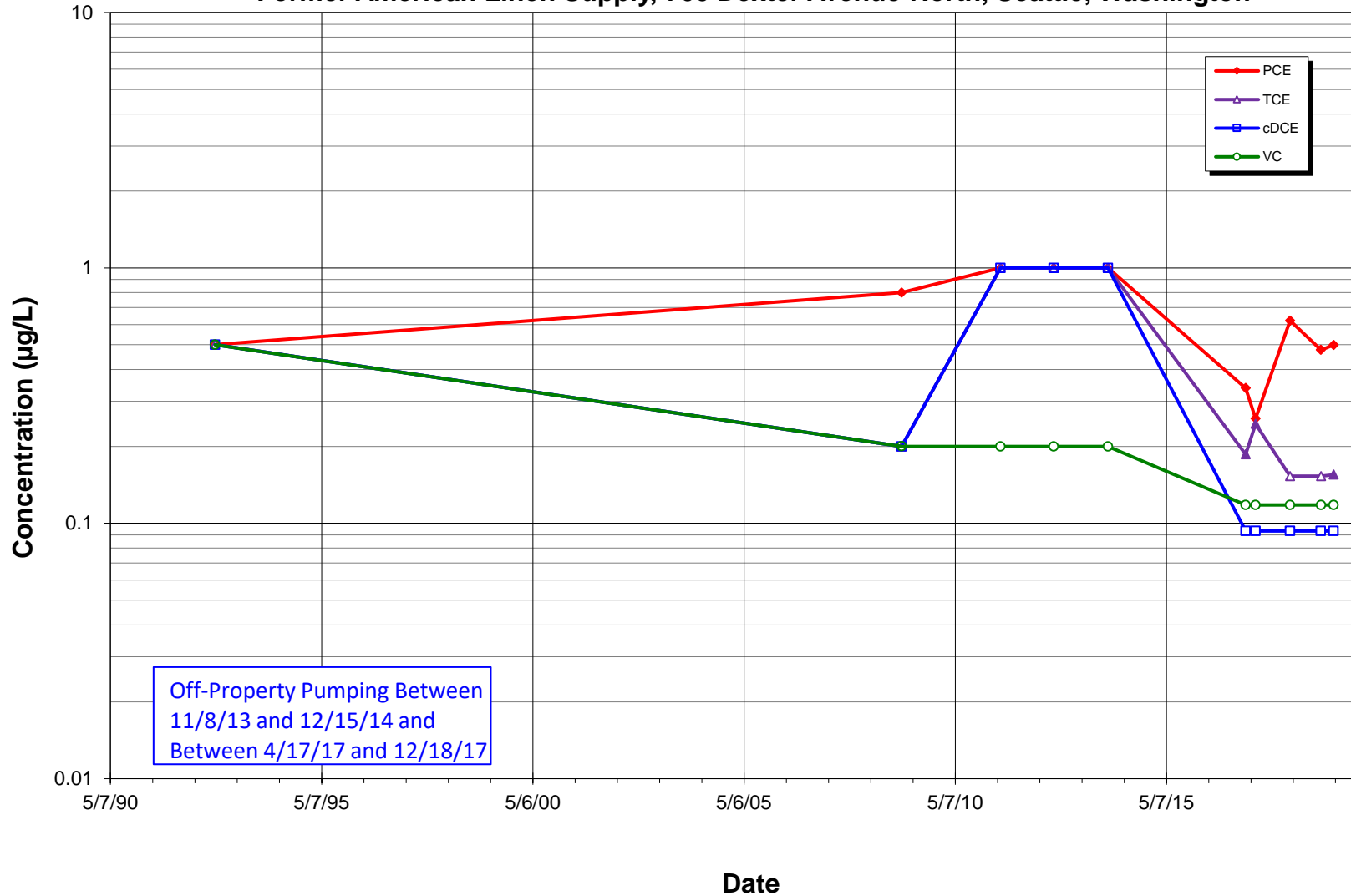
### Concentration vs Time R-MW3 Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

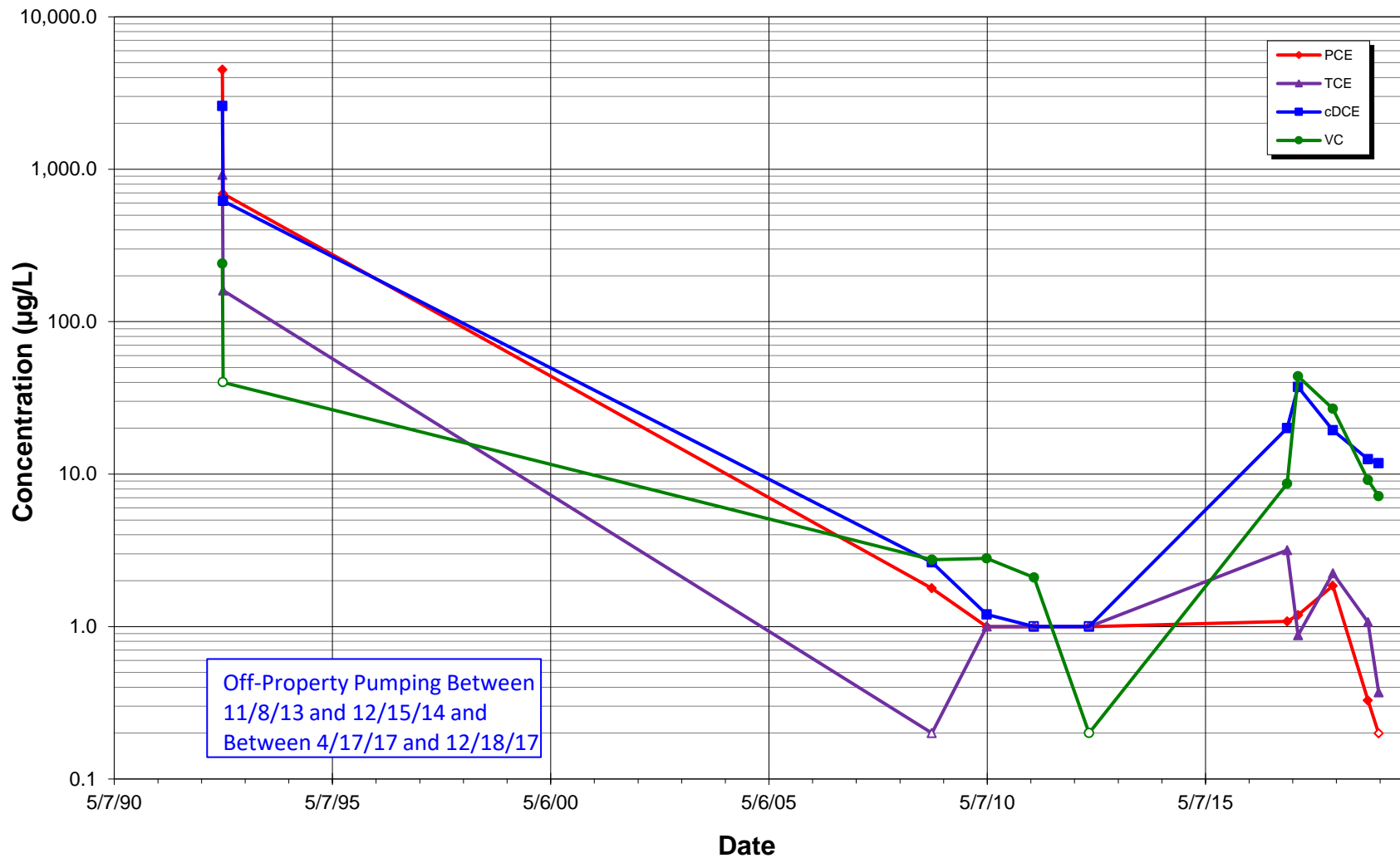
**Concentration vs Time  
R-MW5  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

### Concentration vs Time R-MW6 Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington



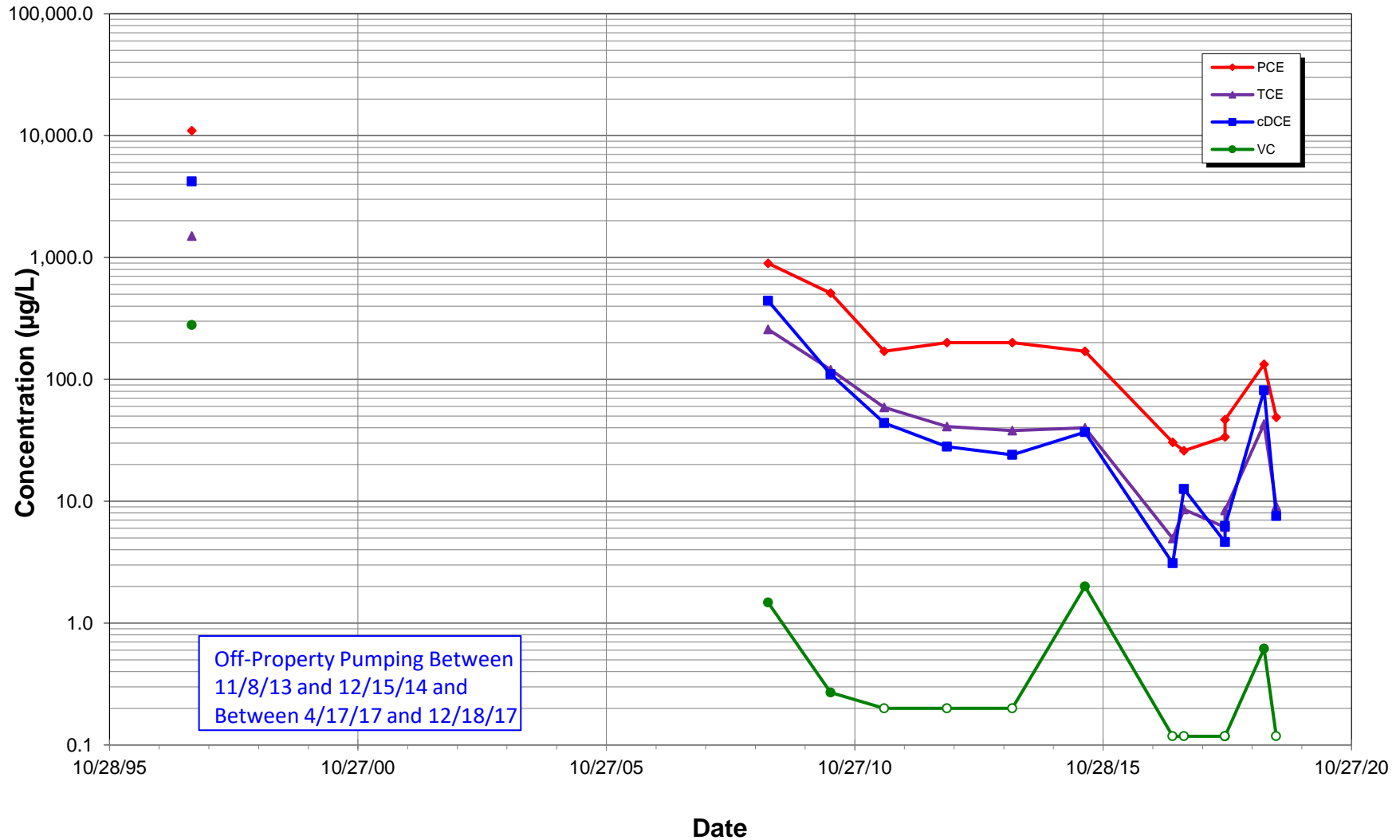
**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Attachment A**  
**Intermediate Well Time-Trend Plots**



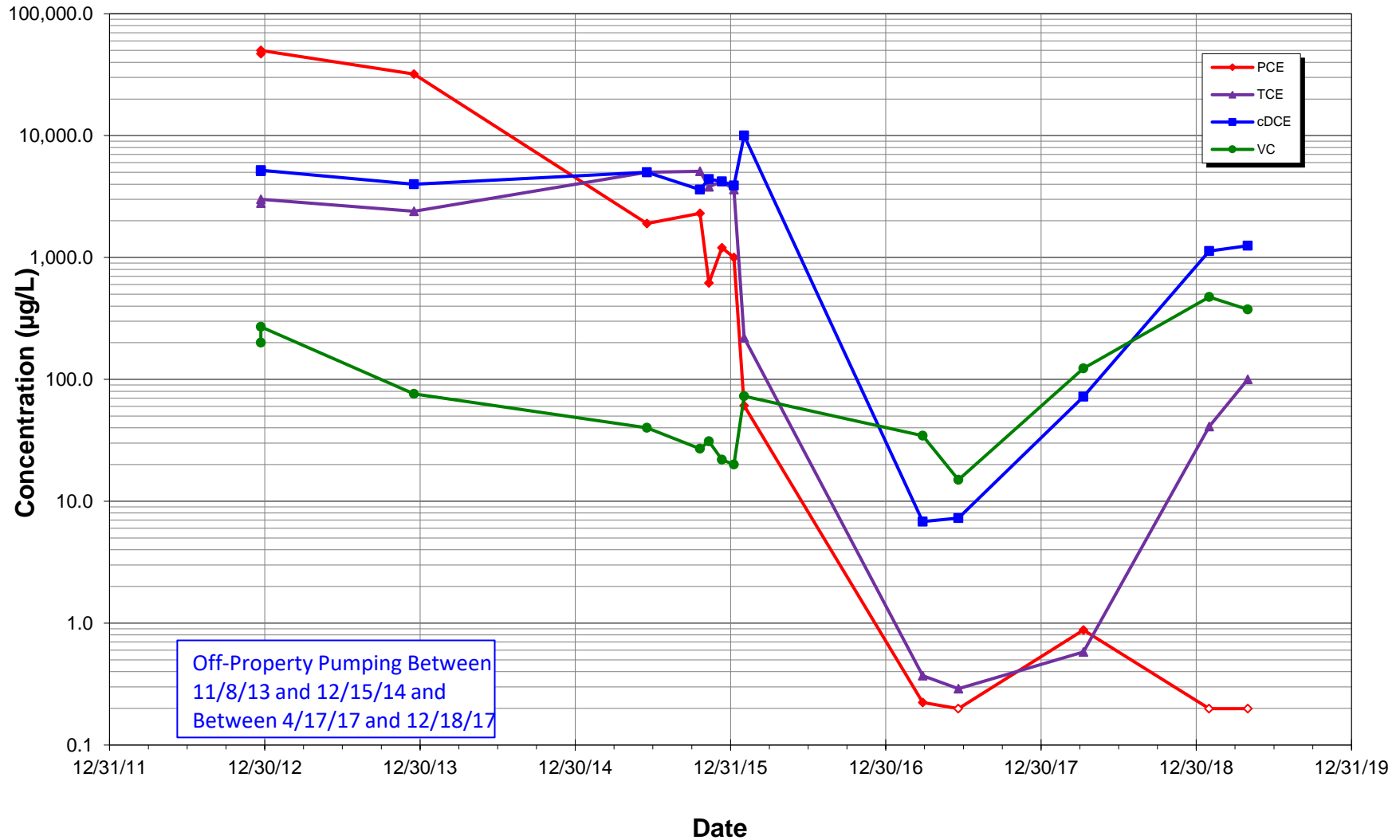
**Concentration vs Time**  
**BB-8**  
**Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

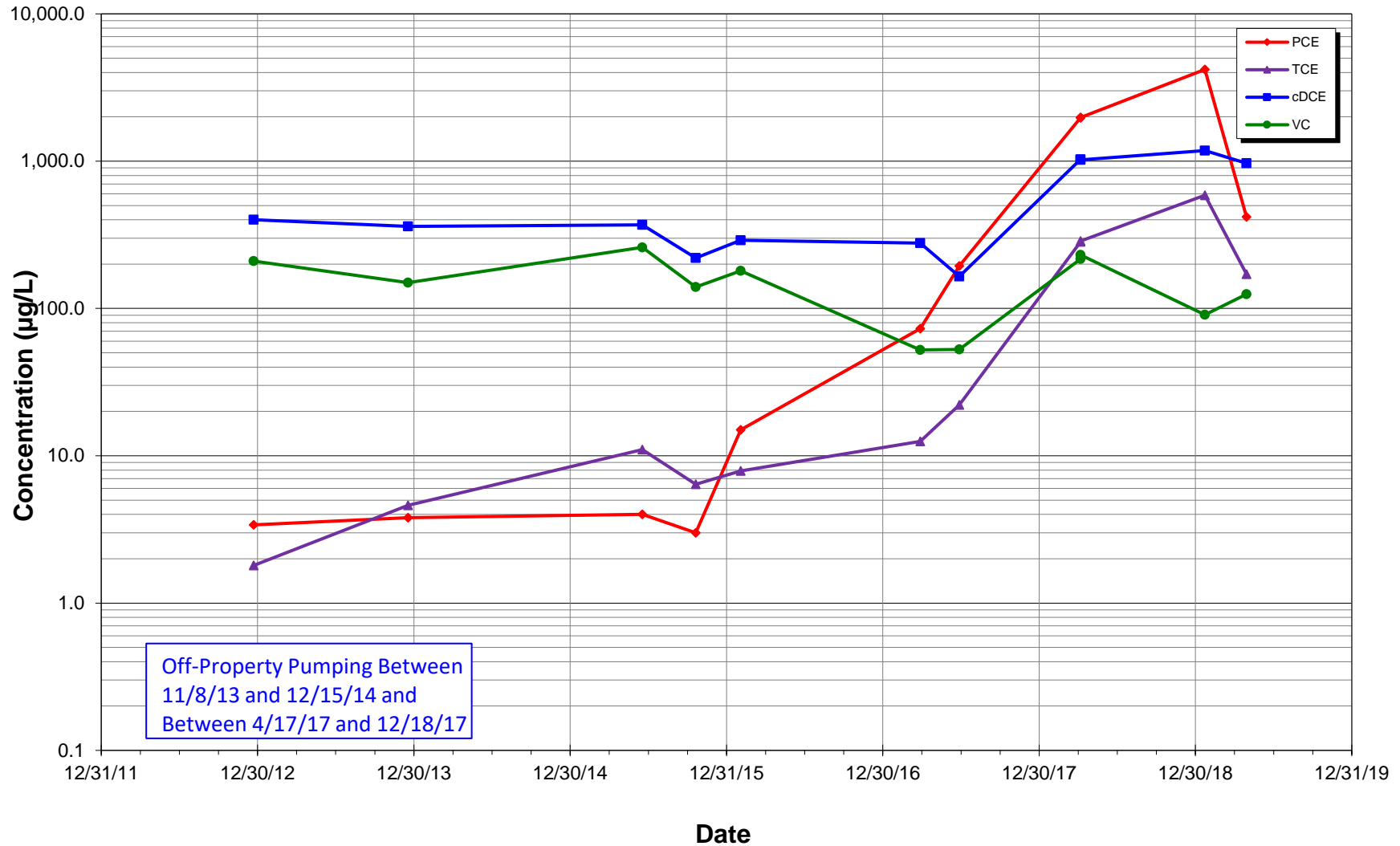
**Concentration vs Time  
MW107  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time  
MW108  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

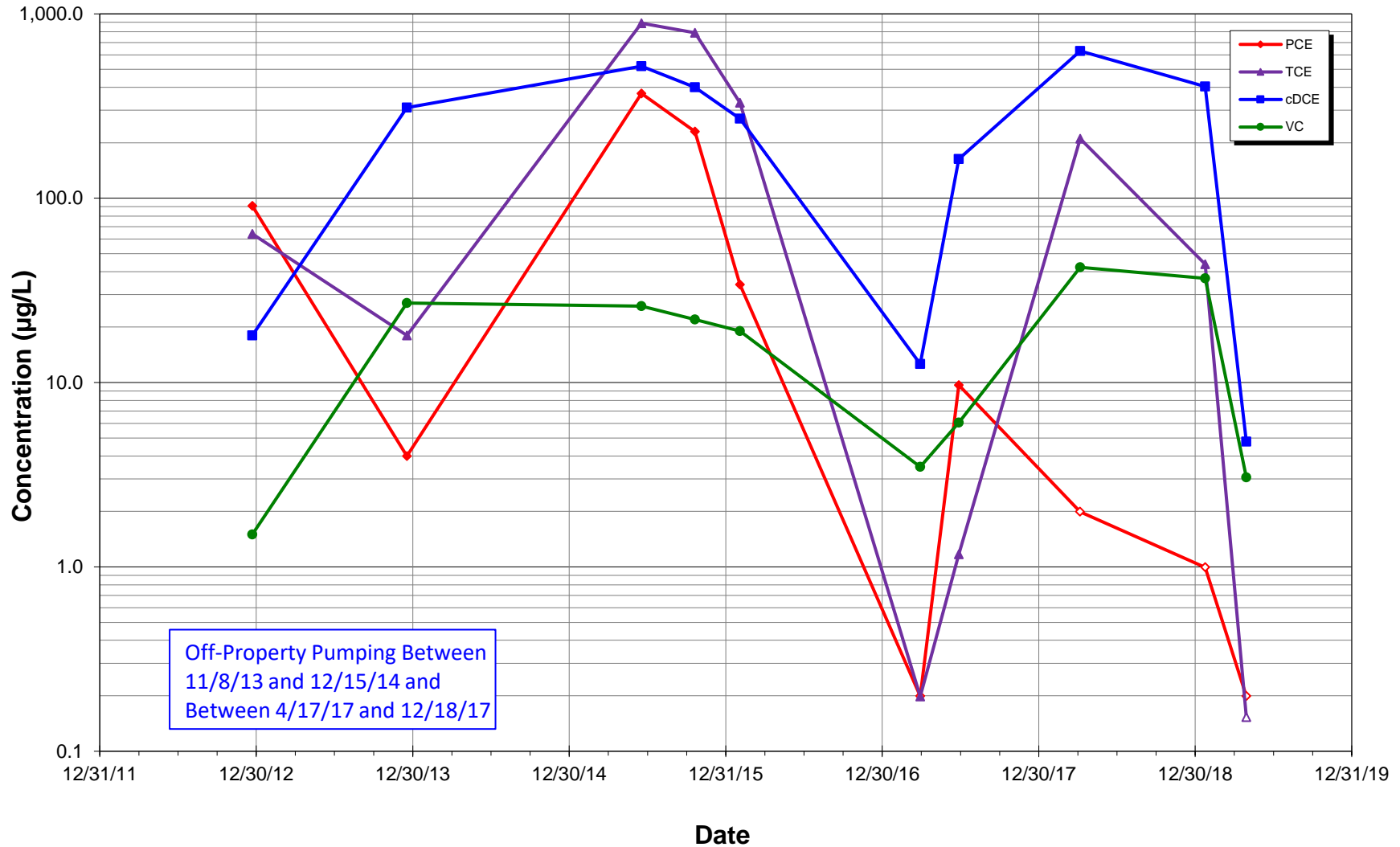


Off-Property Pumping Between  
11/8/13 and 12/15/14 and  
Between 4/17/17 and 12/18/17

**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

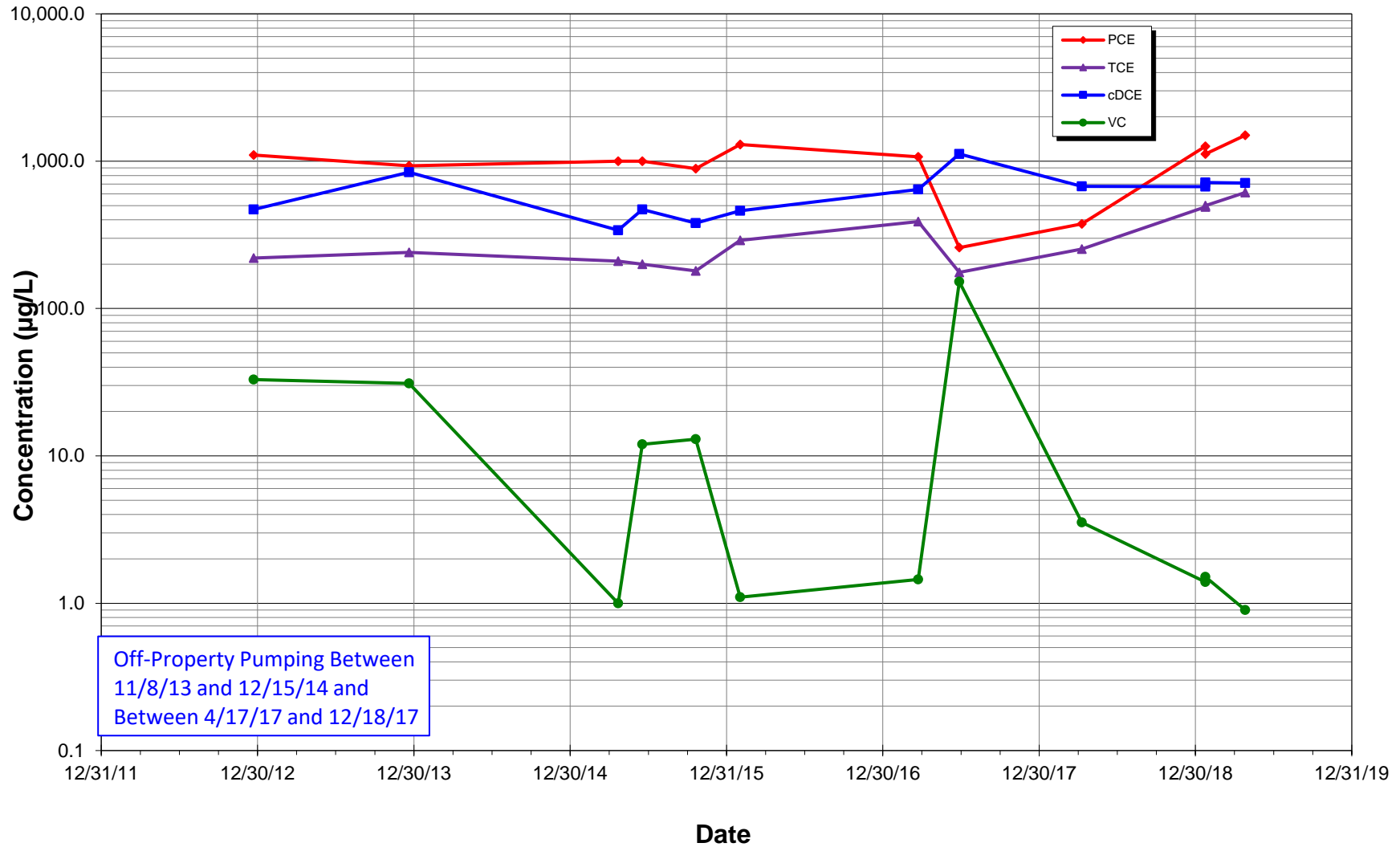
**Concentration vs Time  
MW109  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

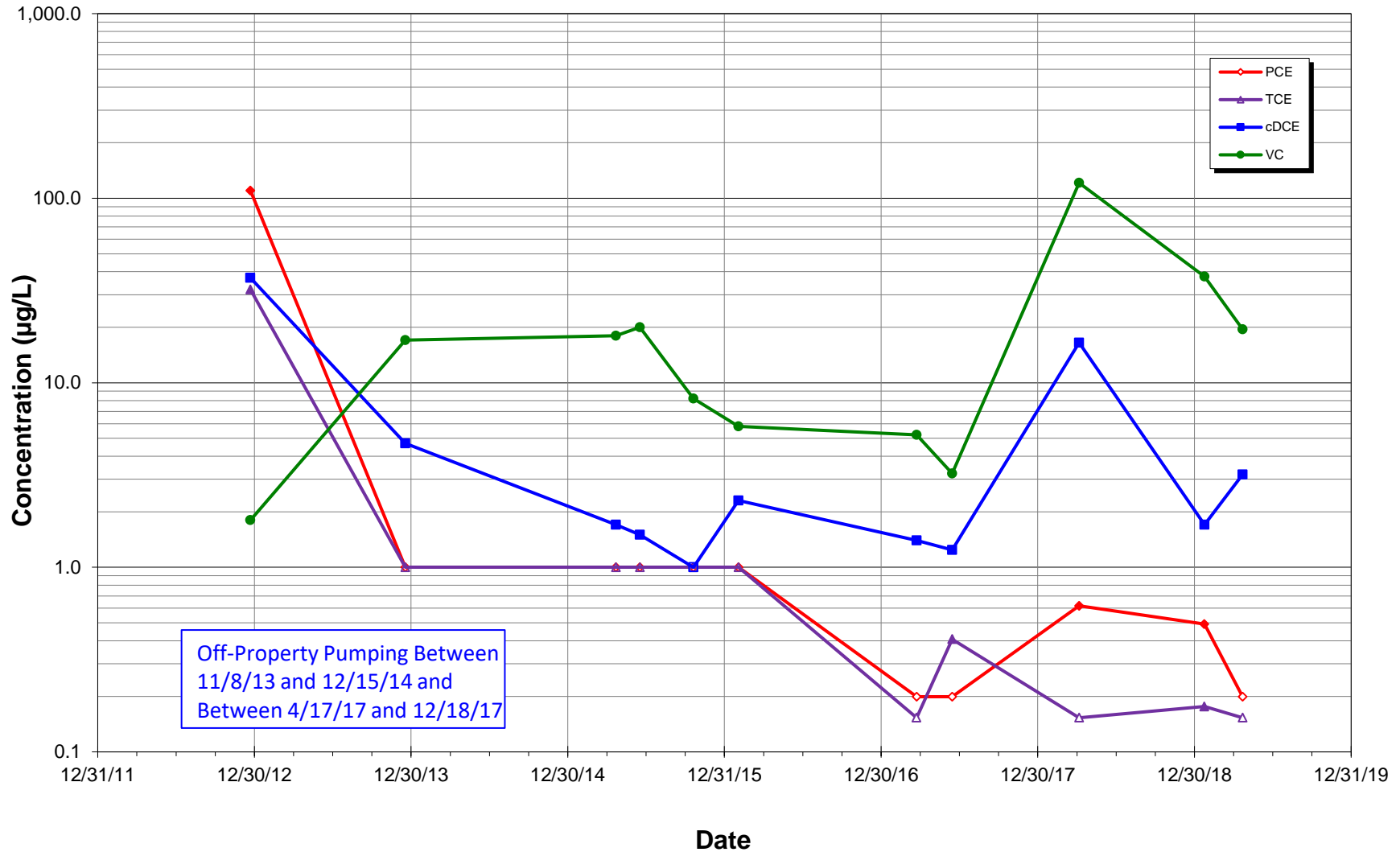
**Concentration vs Time  
MW110  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

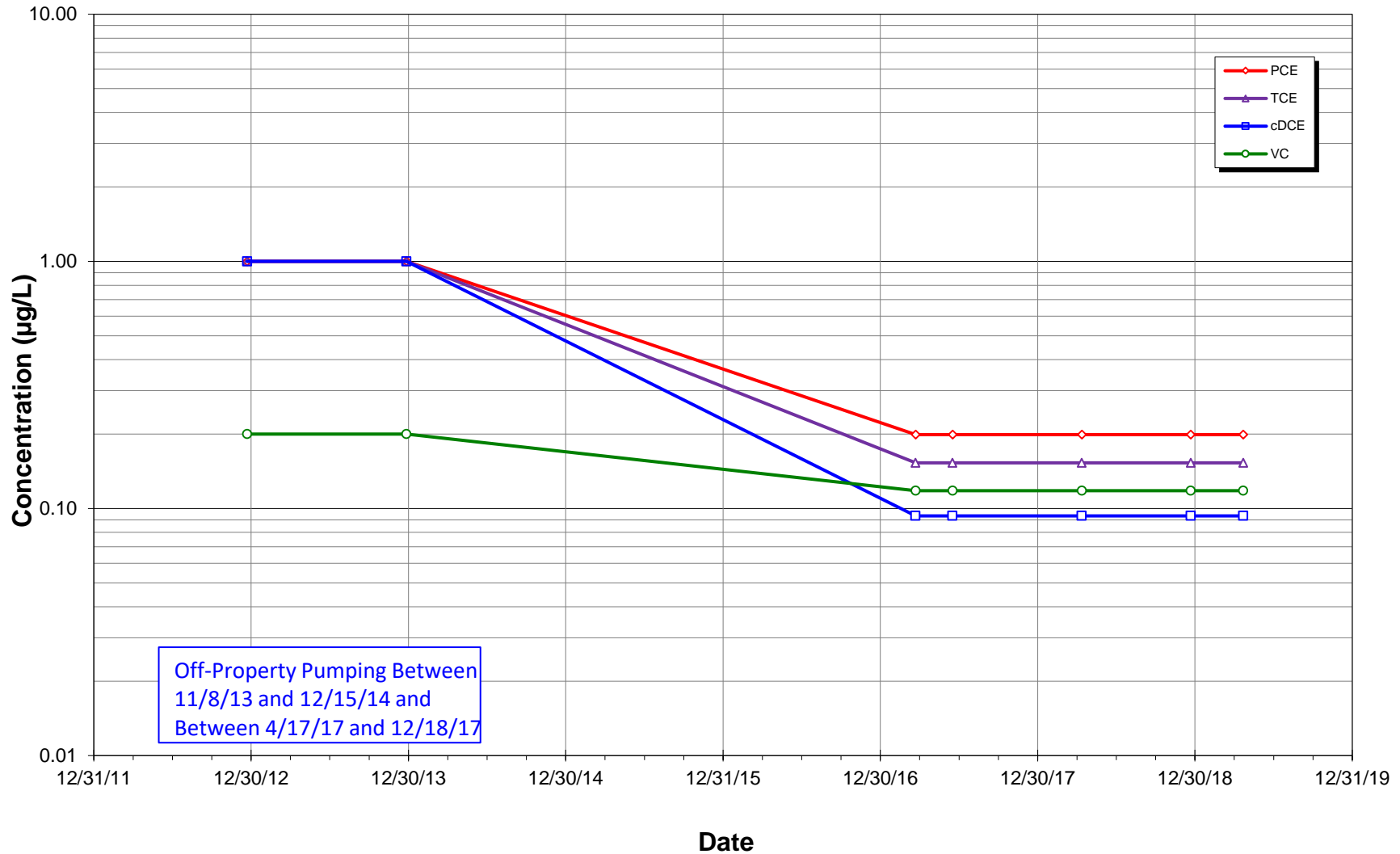
**Concentration vs Time  
MW111  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

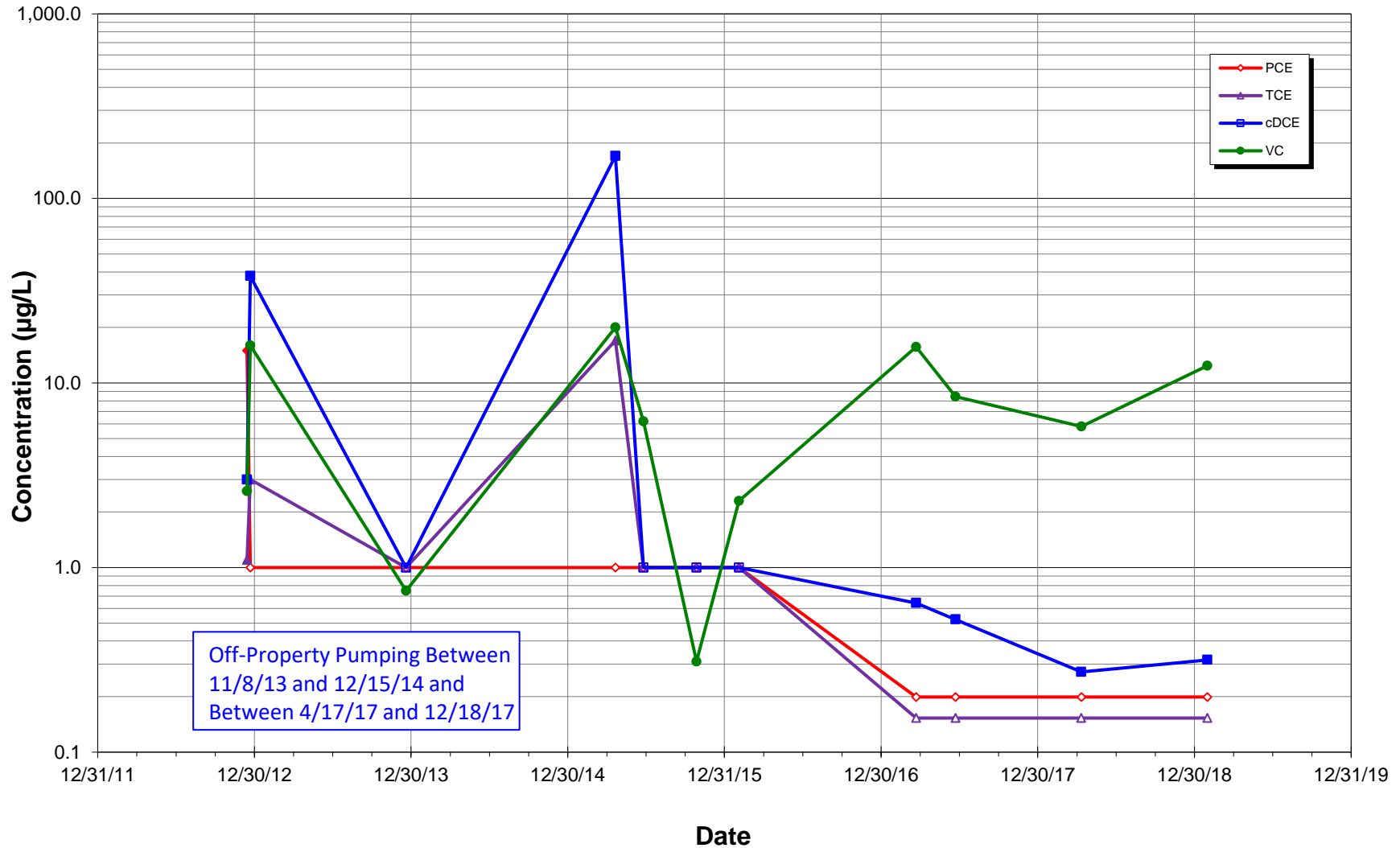
**Concentration vs Time  
MW112  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time  
MW115  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

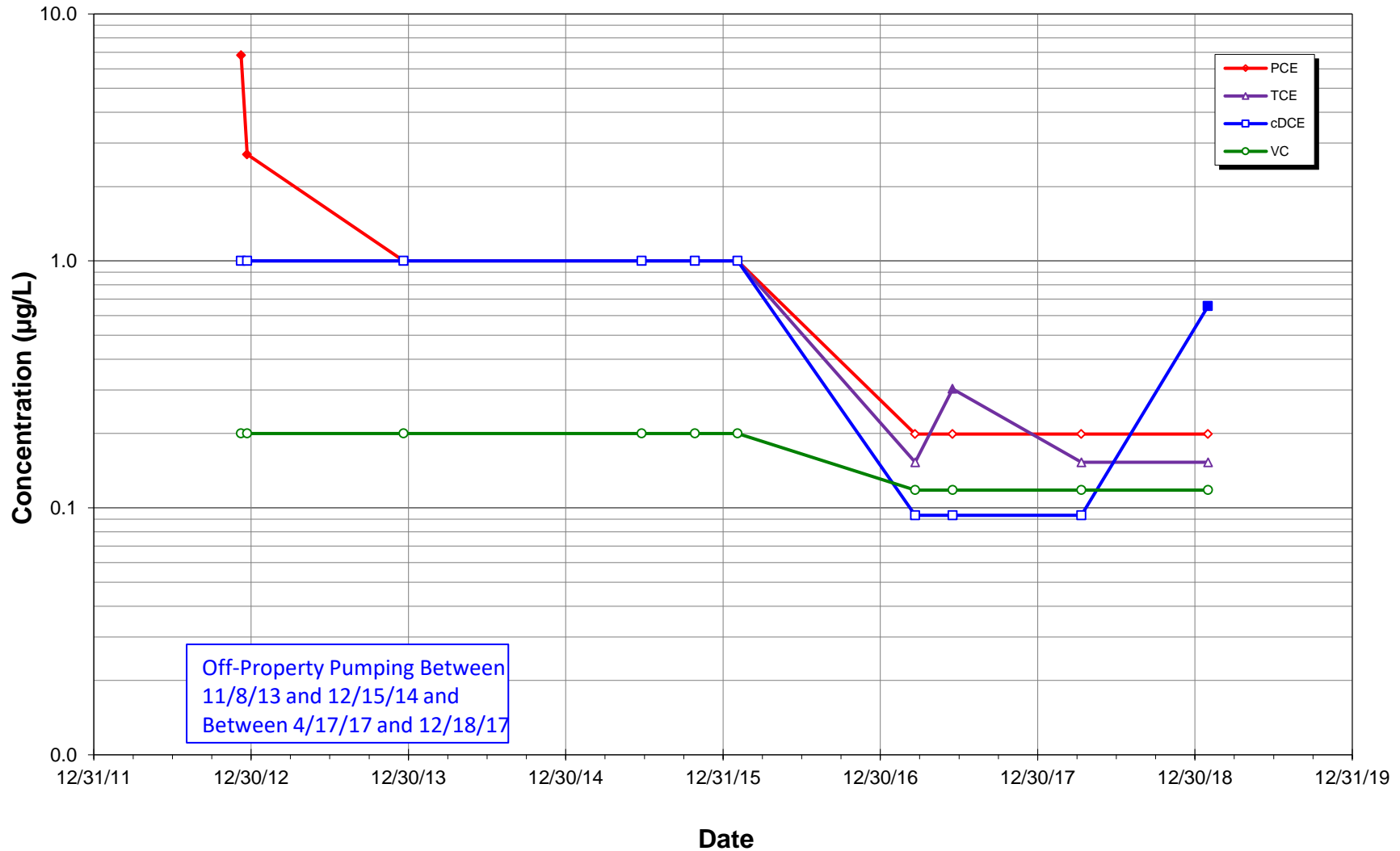


**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.



**Concentration vs Time  
MW116  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

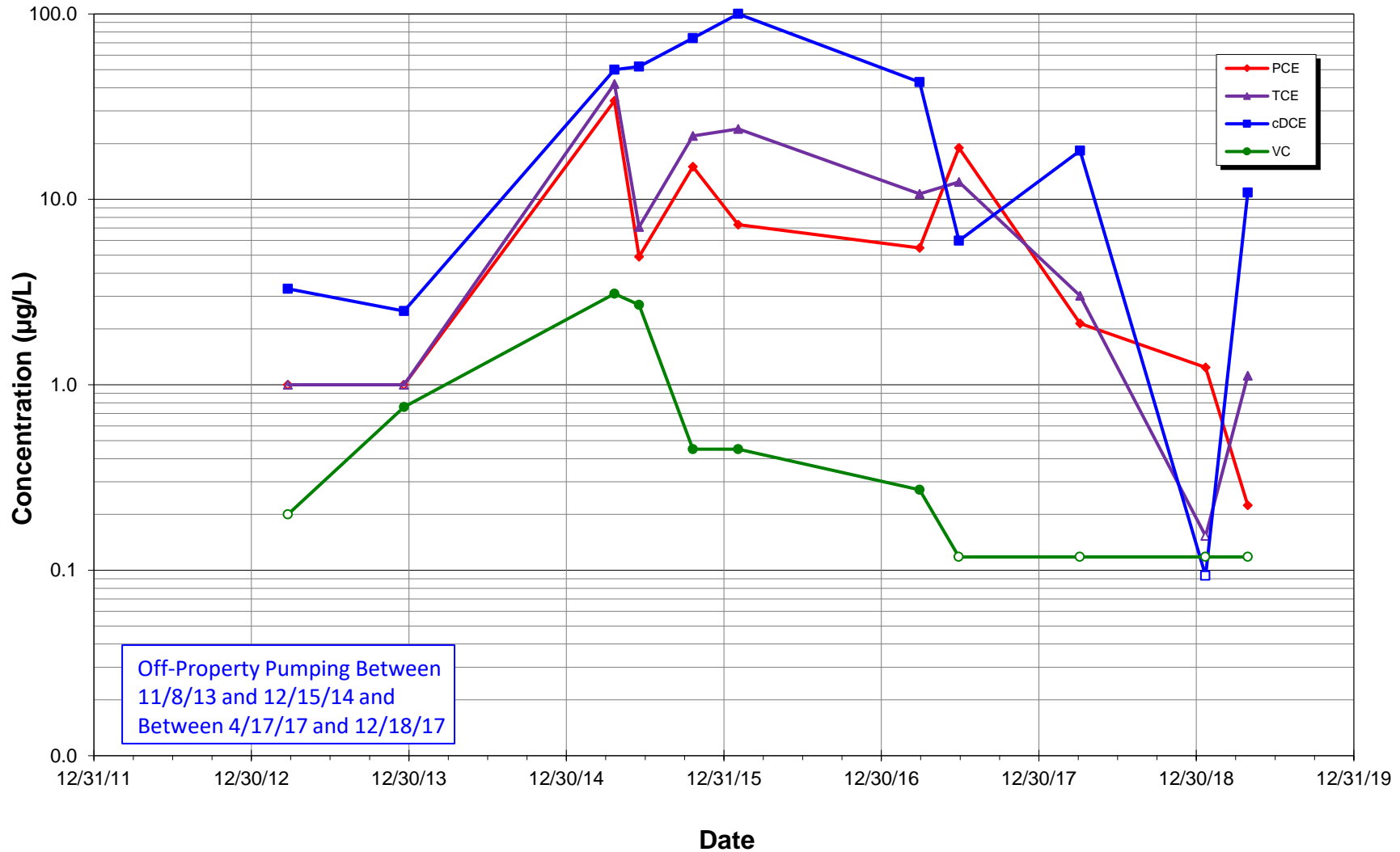


Off-Property Pumping Between  
11/8/13 and 12/15/14 and  
Between 4/17/17 and 12/18/17

**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

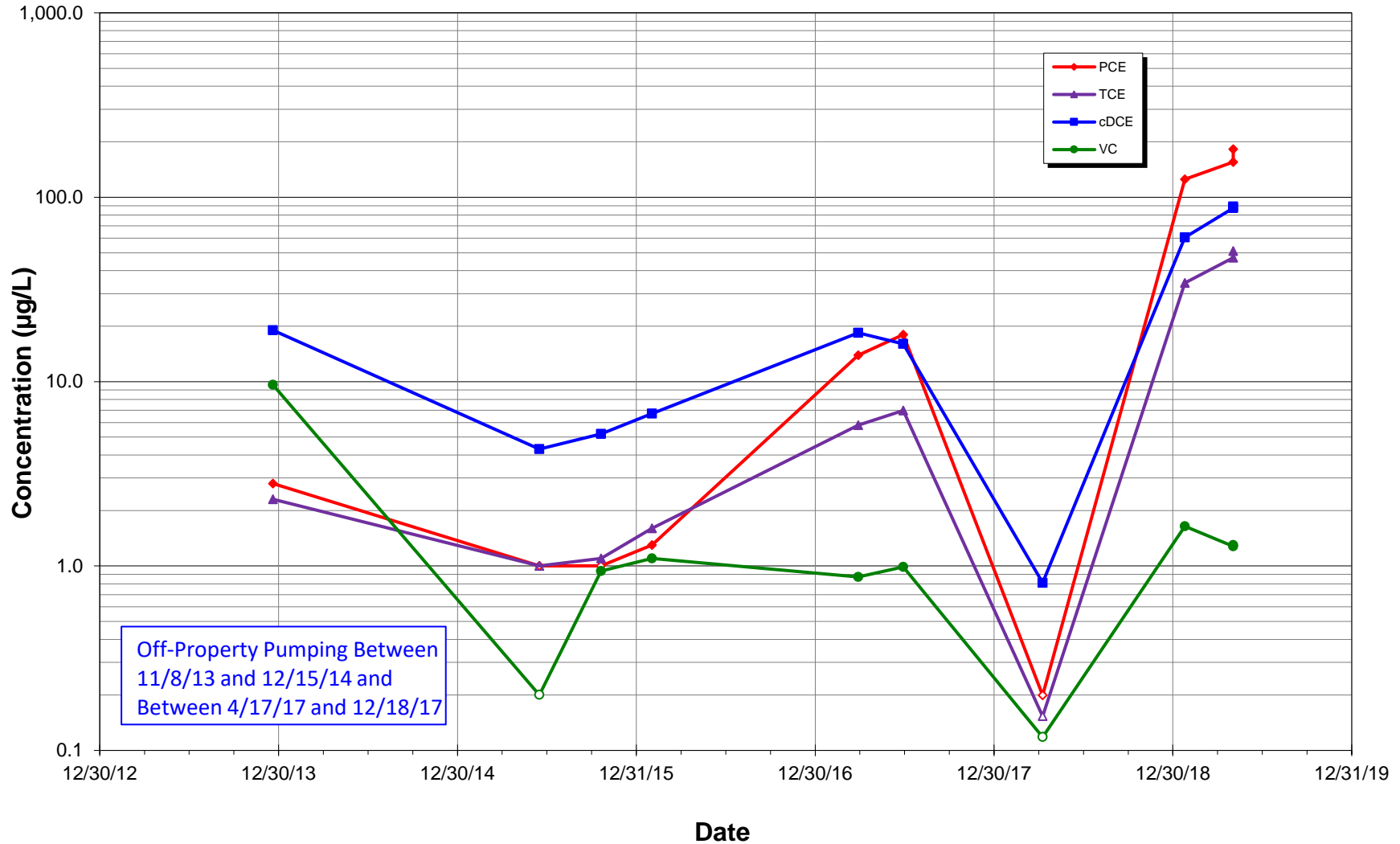
**Concentration vs Time  
MW119  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

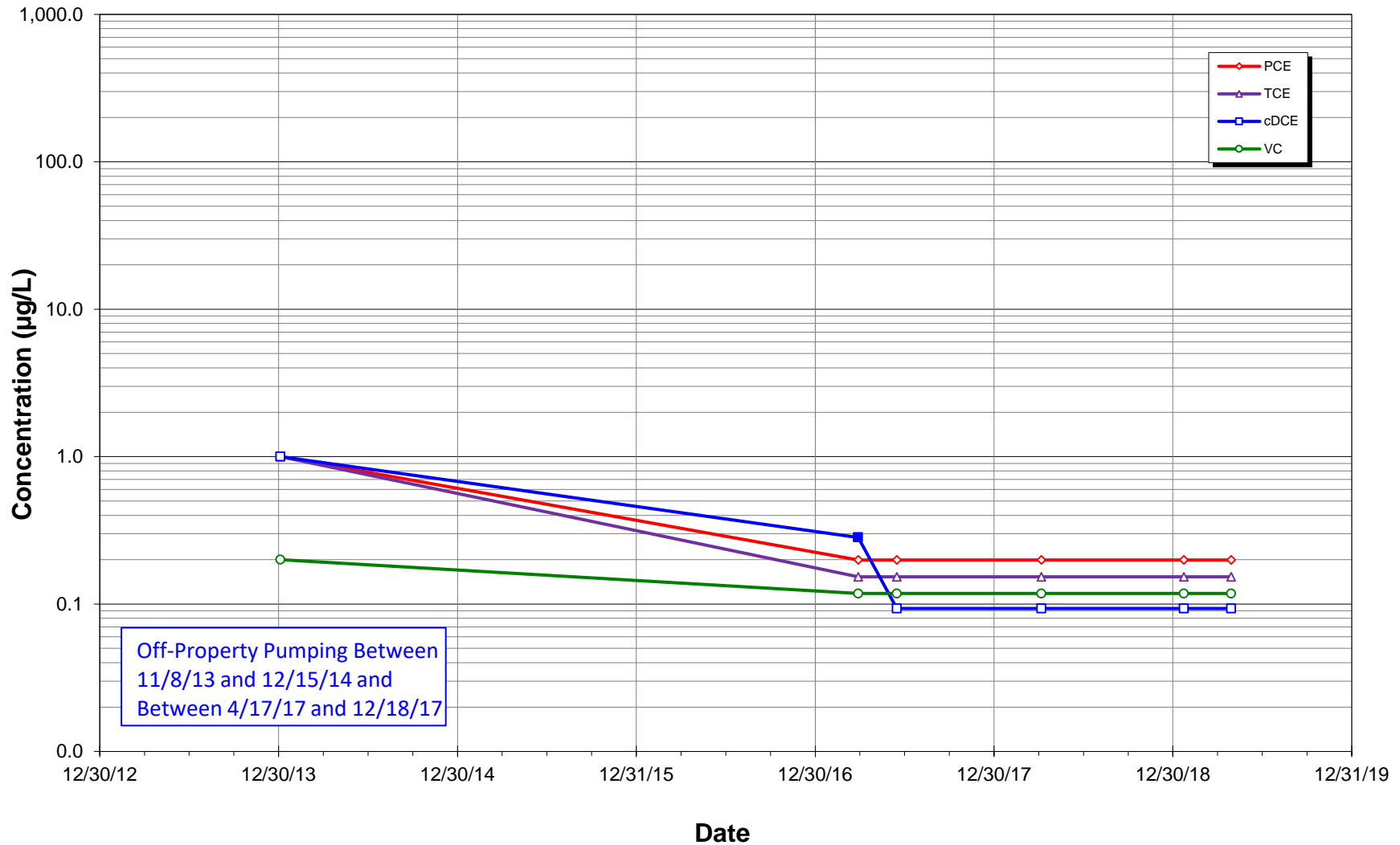
**Concentration vs Time  
MW120  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

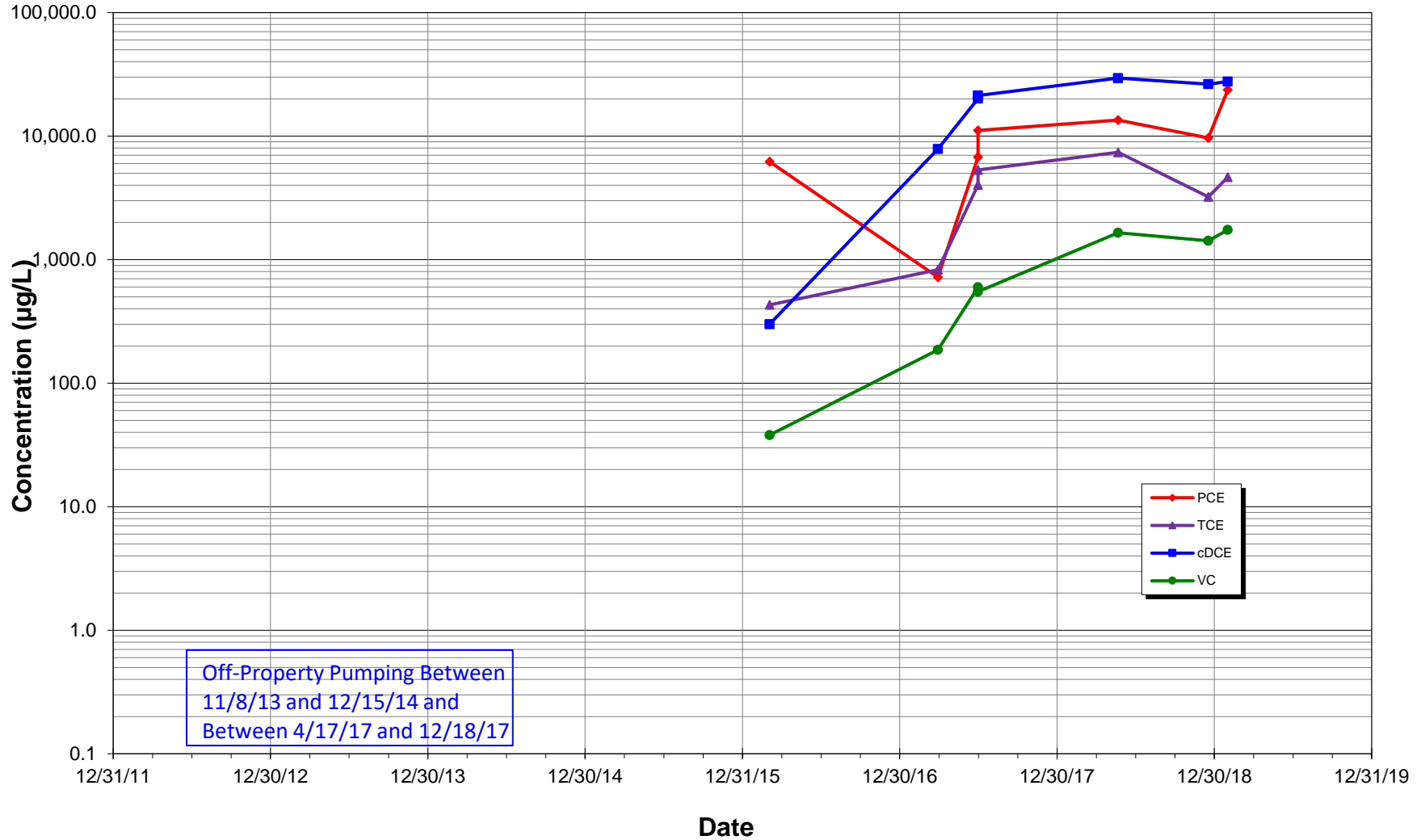
**Concentration vs Time  
MW126  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

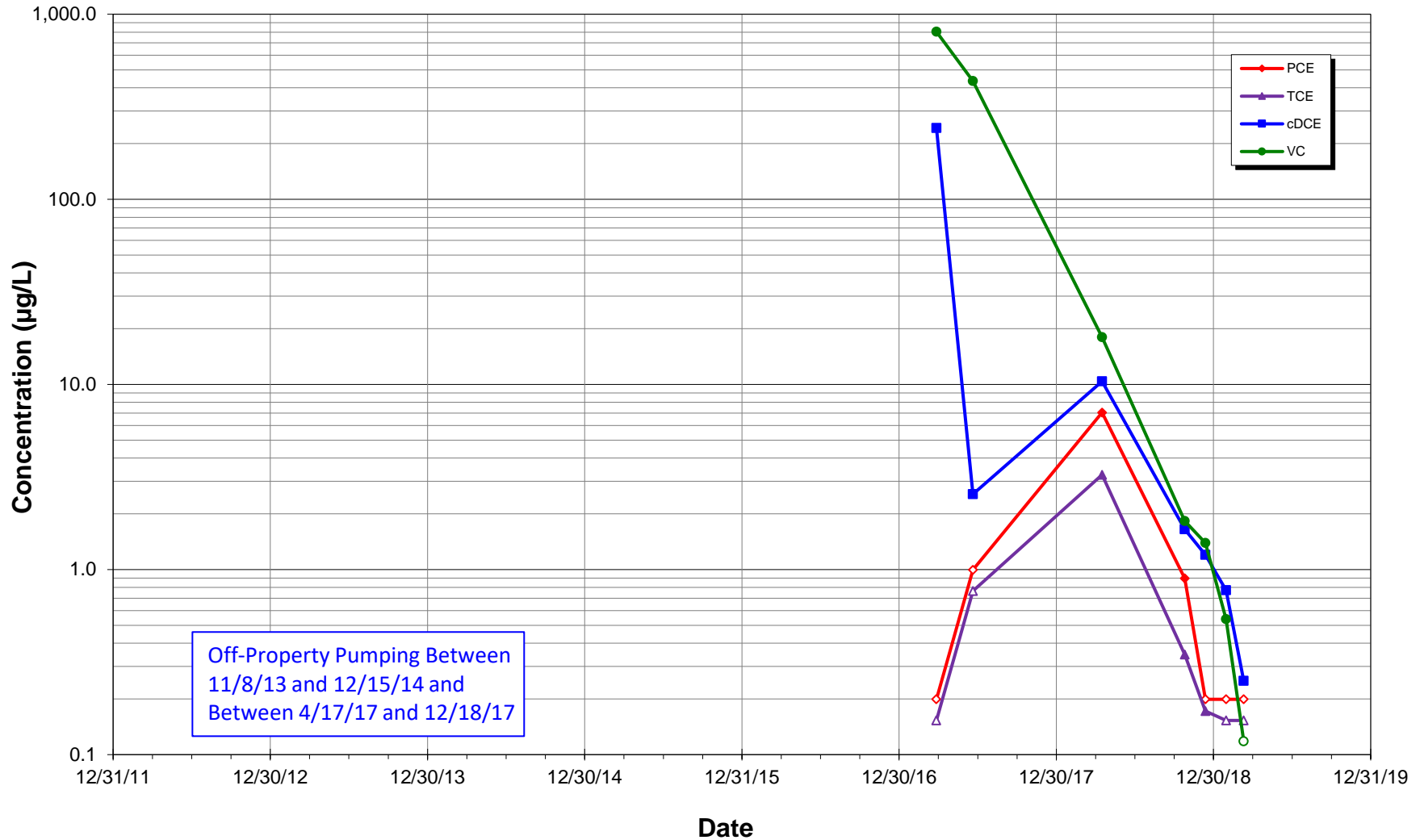
**Concentration vs Time**  
**MW130**  
**Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

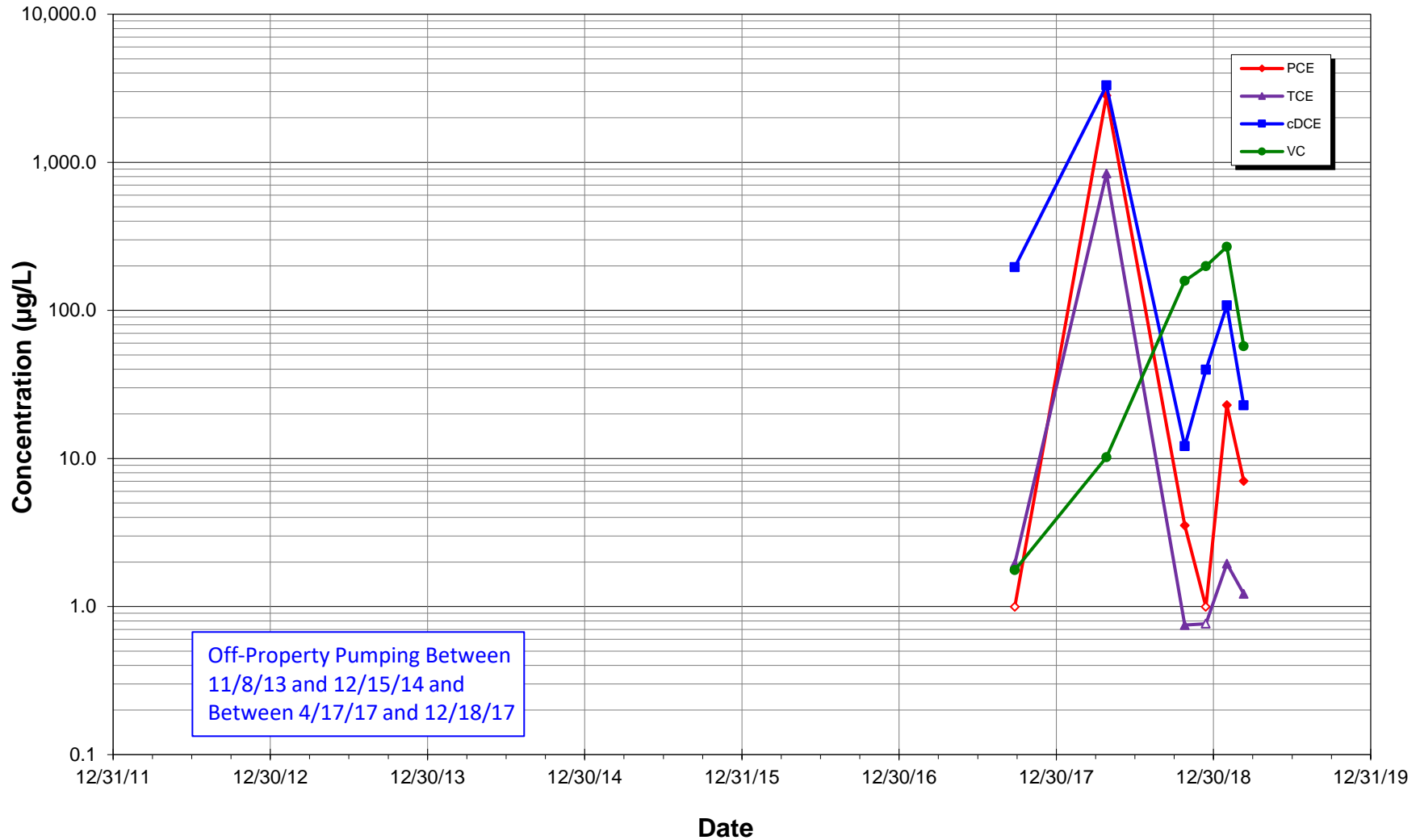
**Concentration vs Time  
MW131  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

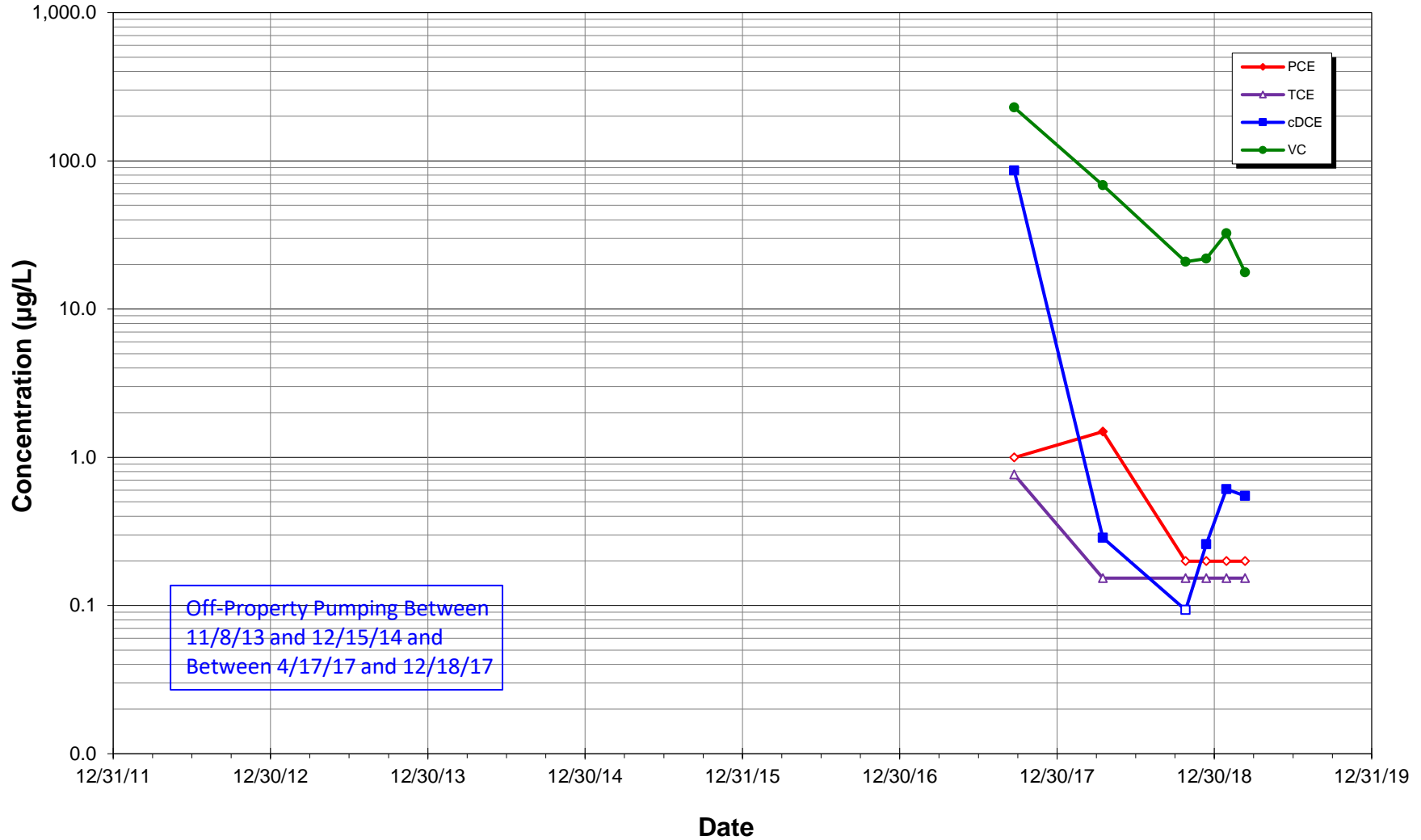
**Concentration vs Time  
MW-132  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time  
MW-134  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

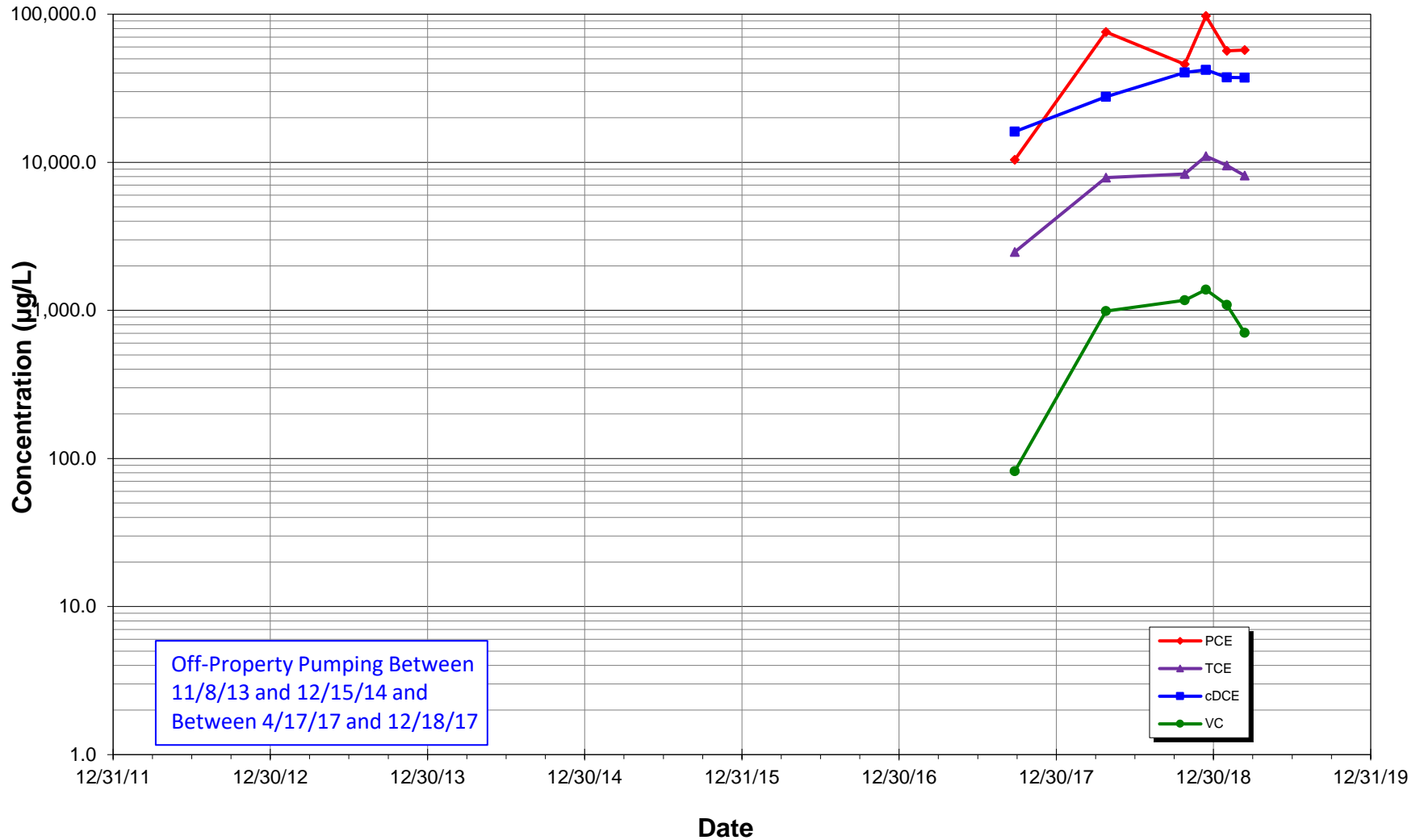


**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.



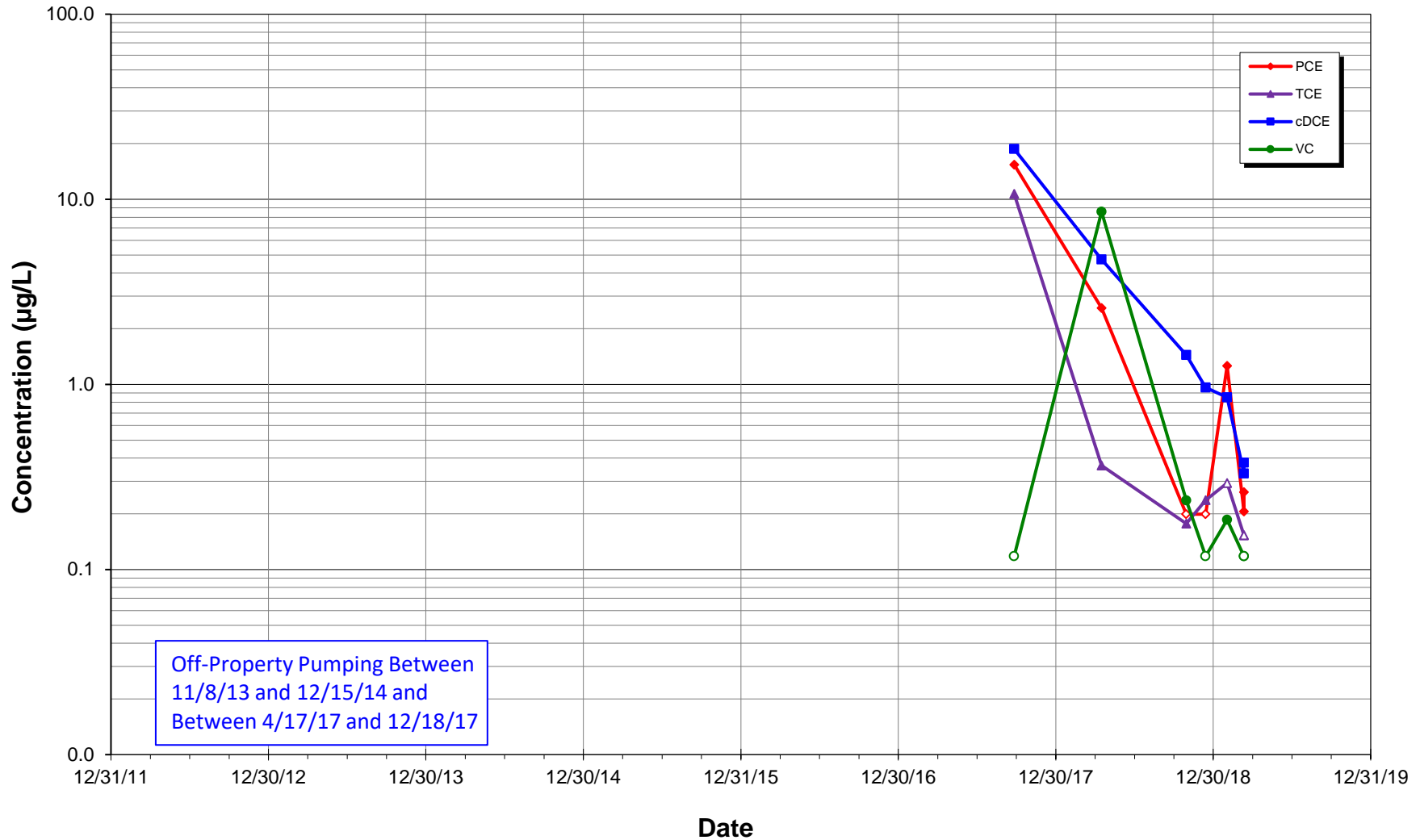
**Concentration vs Time  
MW-135  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

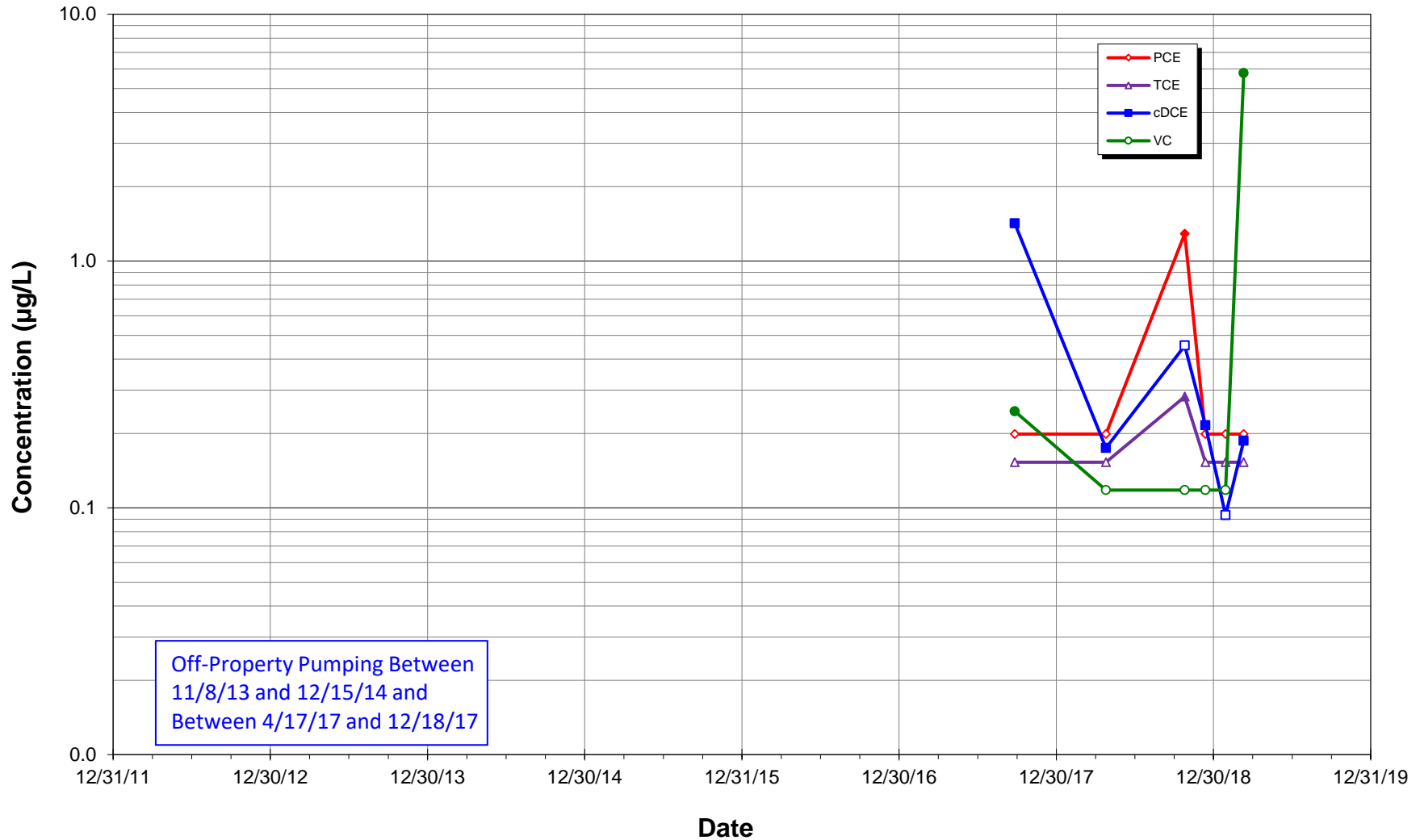
**Concentration vs Time  
MW-136  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



Notes:

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

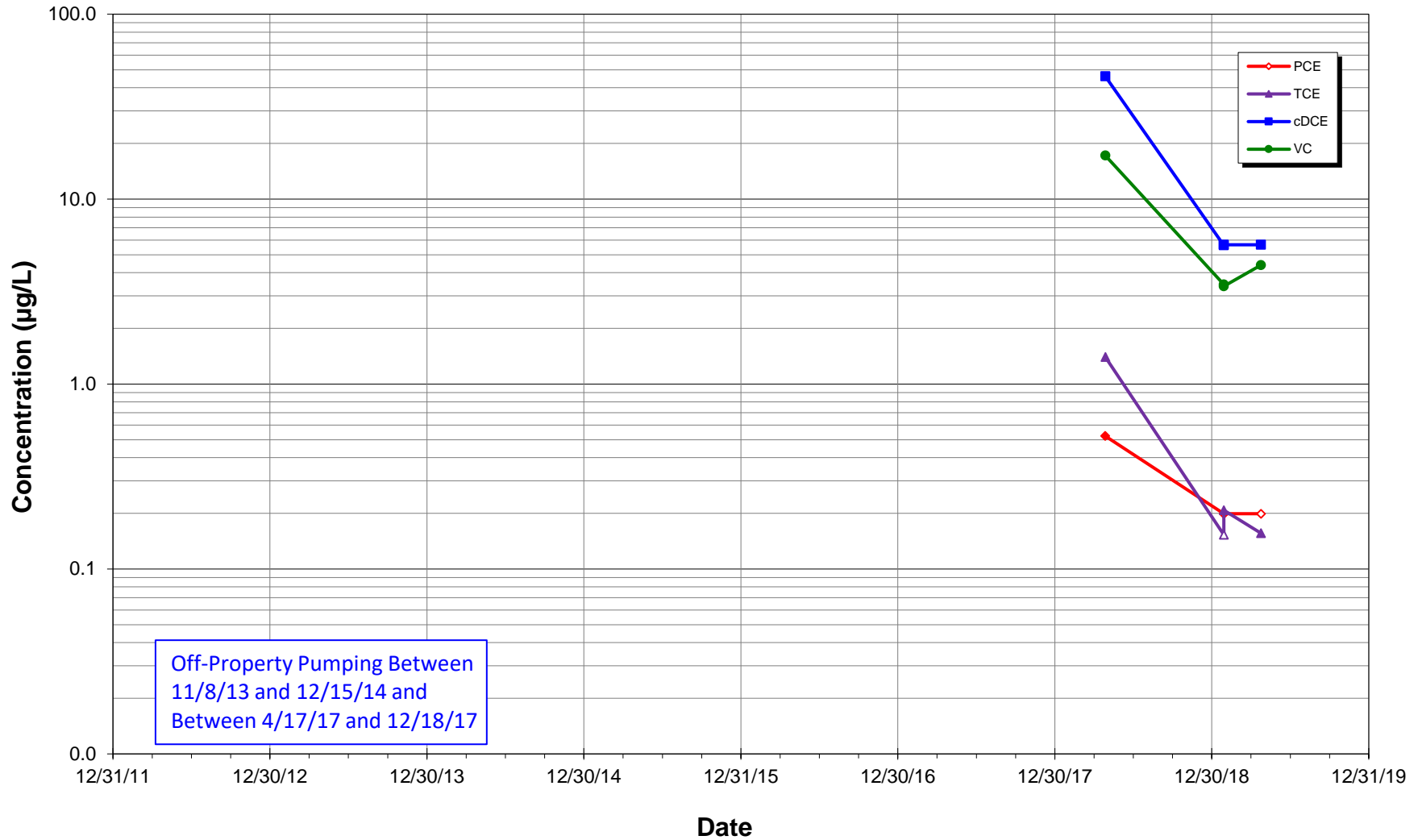
**Concentration vs Time  
MW-139  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



Notes:

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

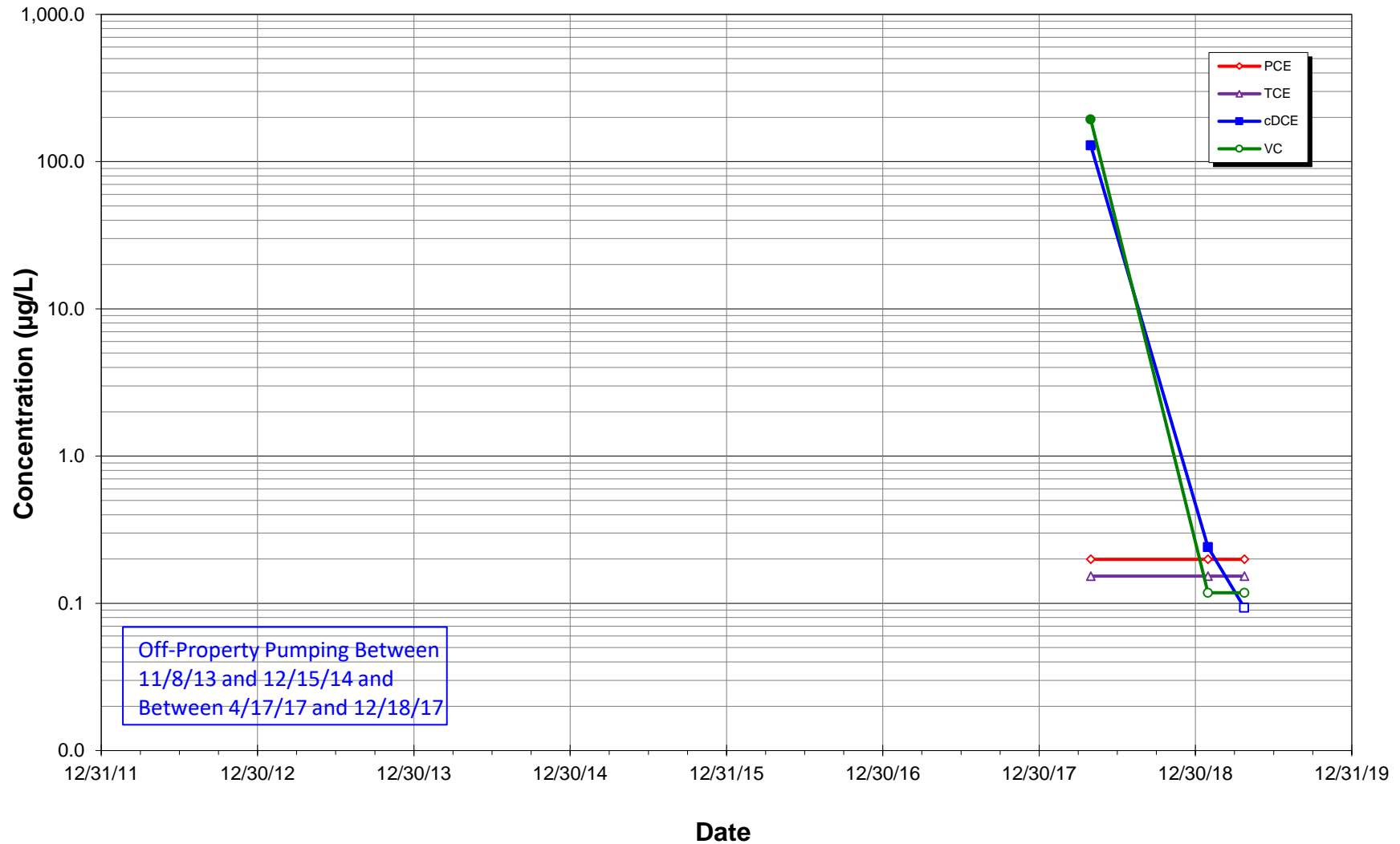
**Concentration vs Time**  
**MW-142**  
**Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

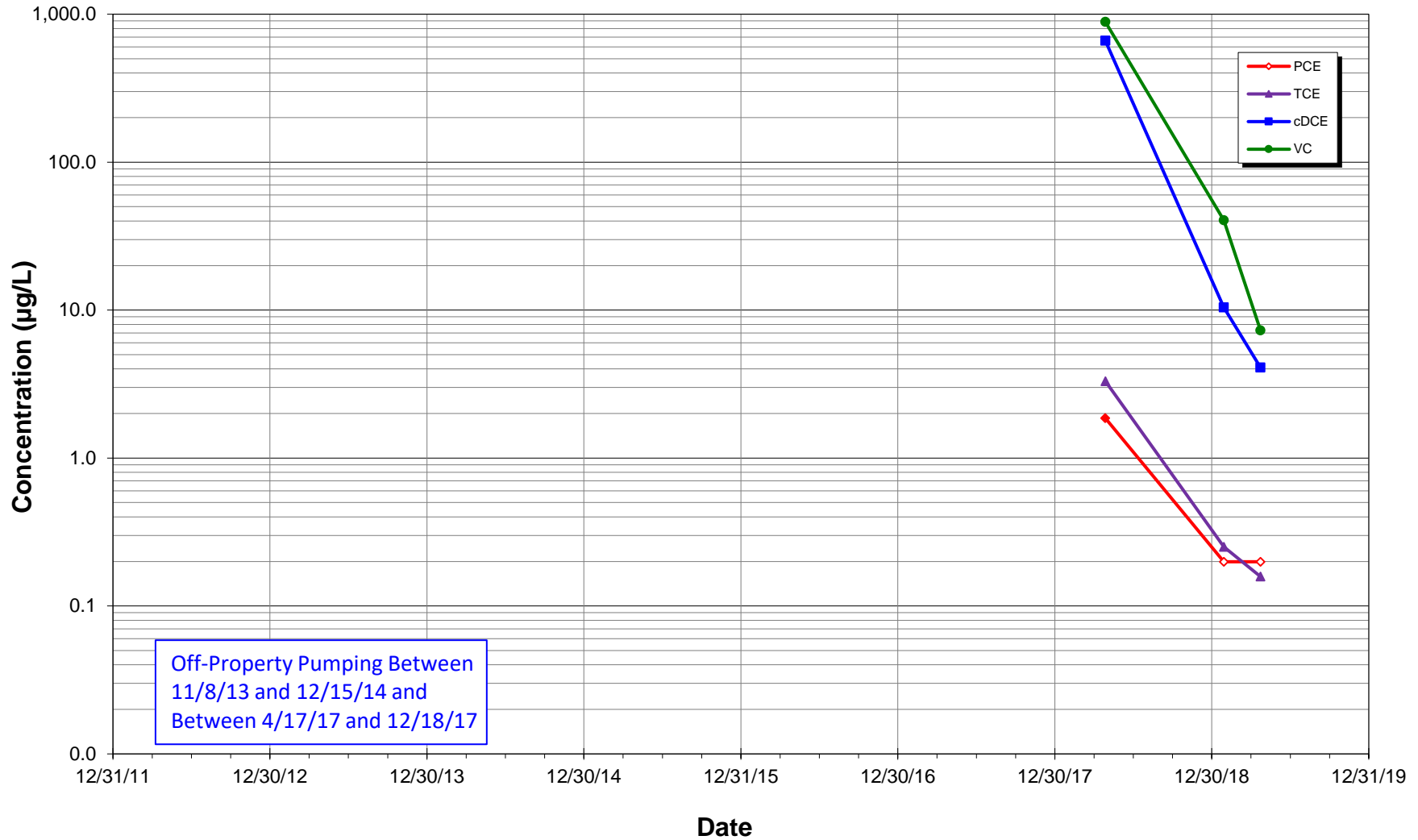
**Concentration vs Time  
MW-143  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

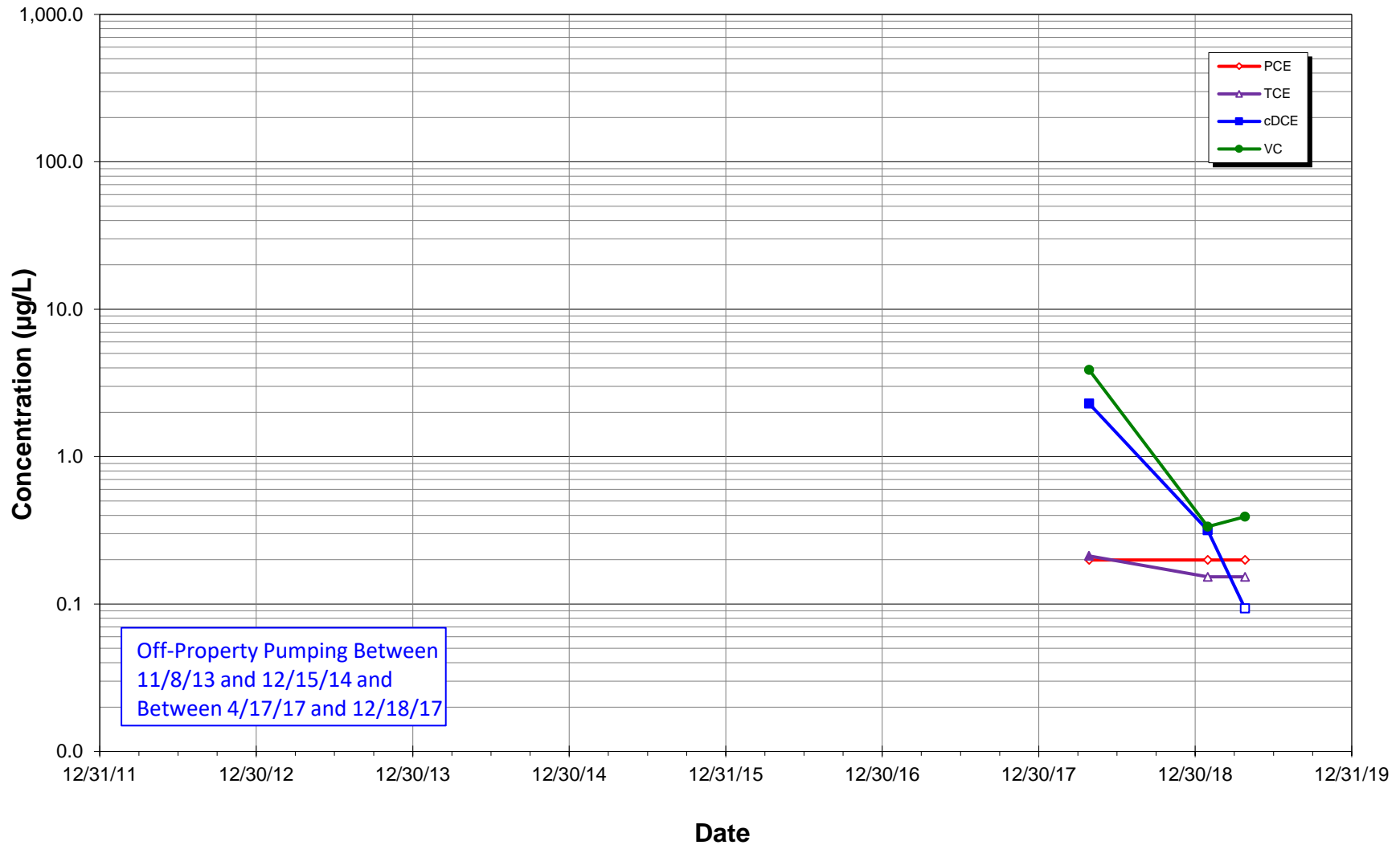
**Concentration vs Time  
MW-144  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

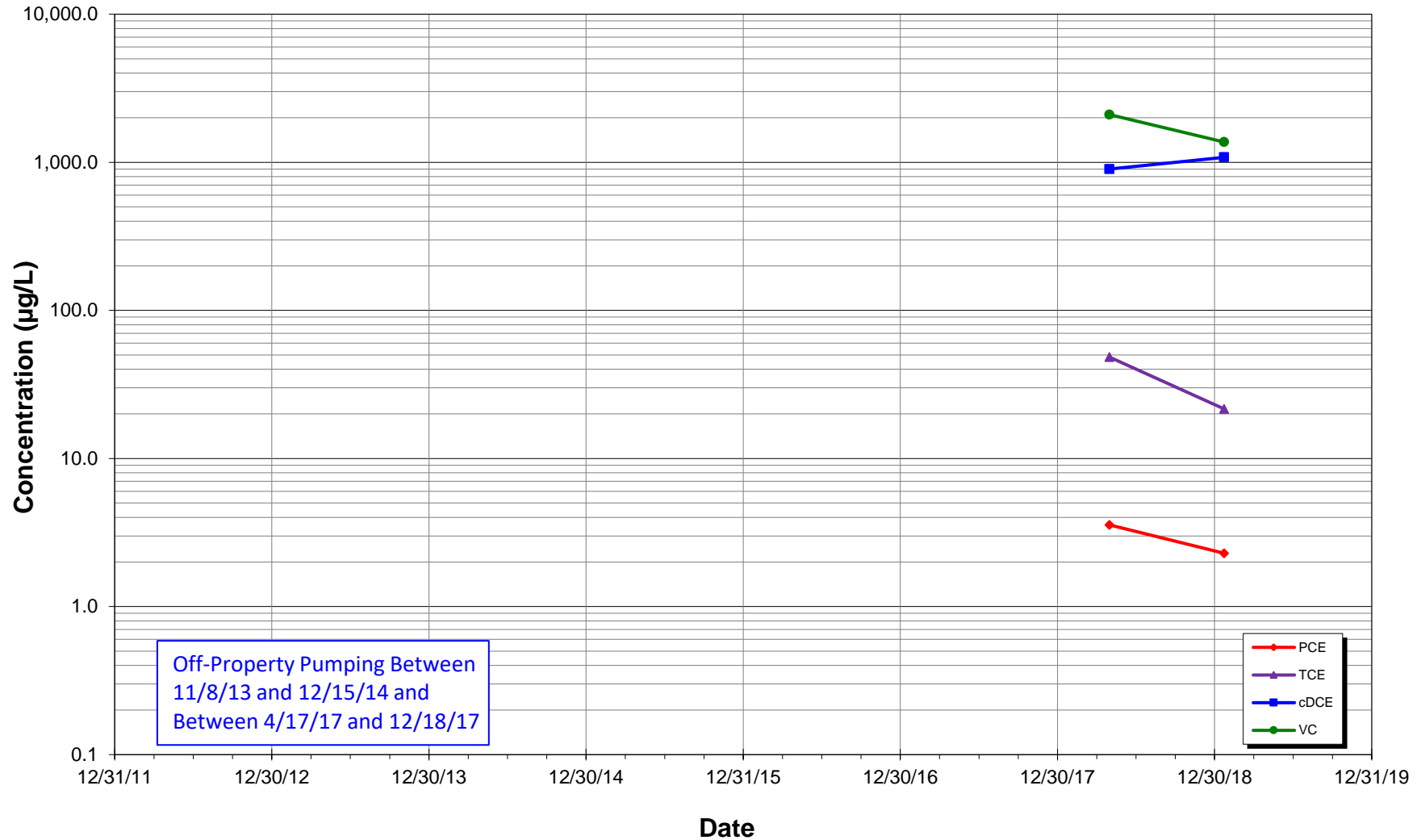
**Concentration vs Time  
MW-145  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time  
MW-146  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

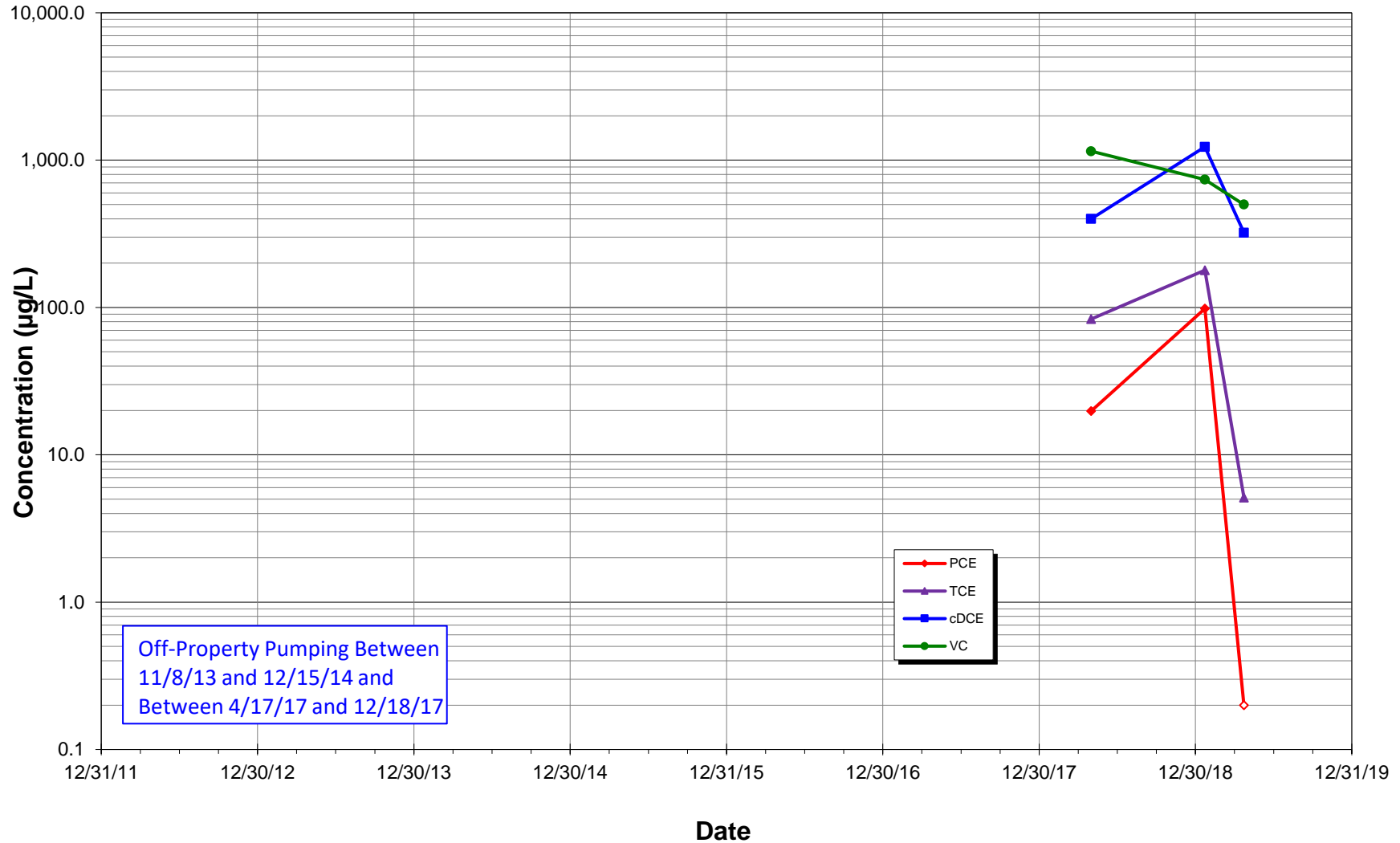


**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.



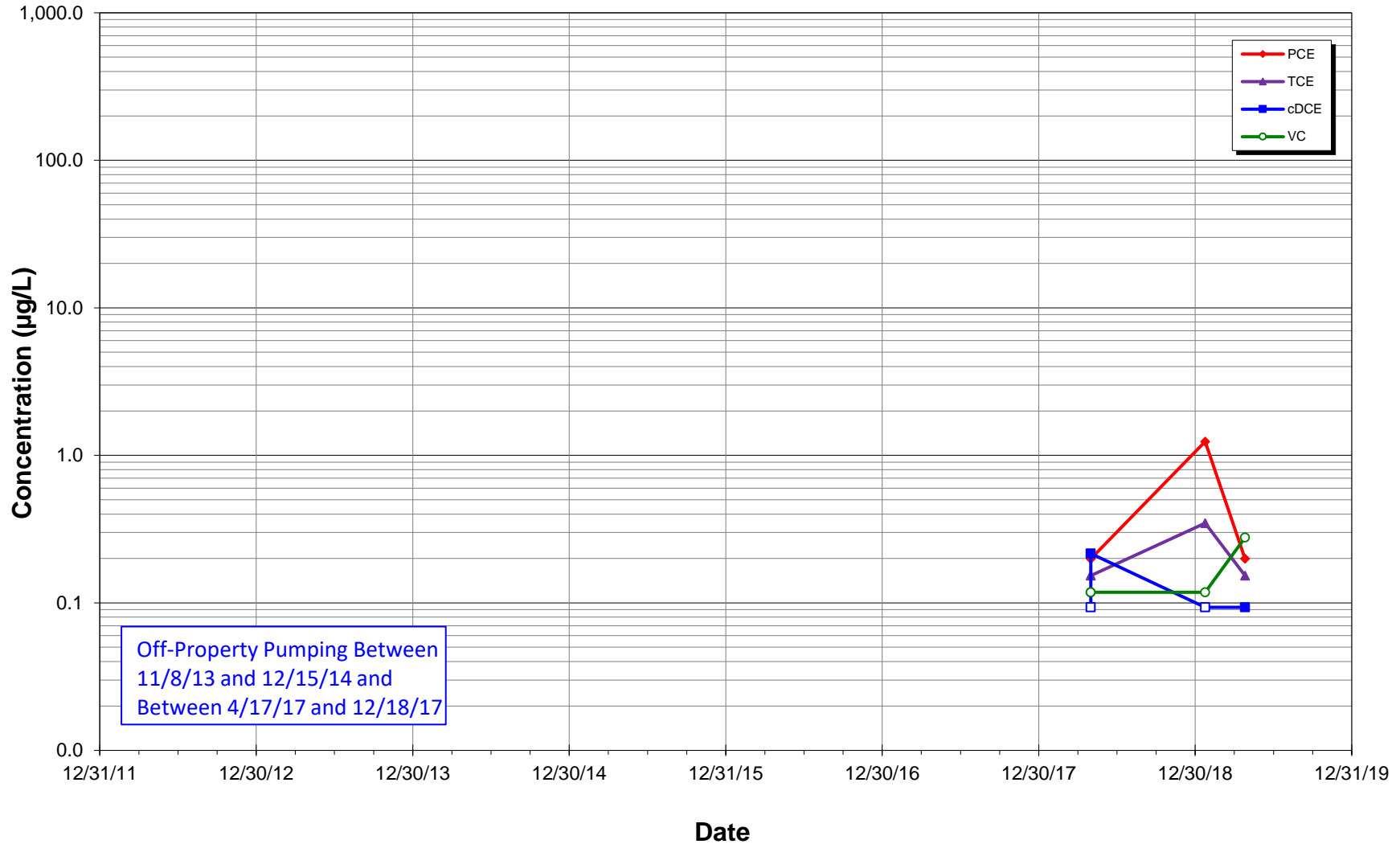
**Concentration vs Time  
MW-147  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

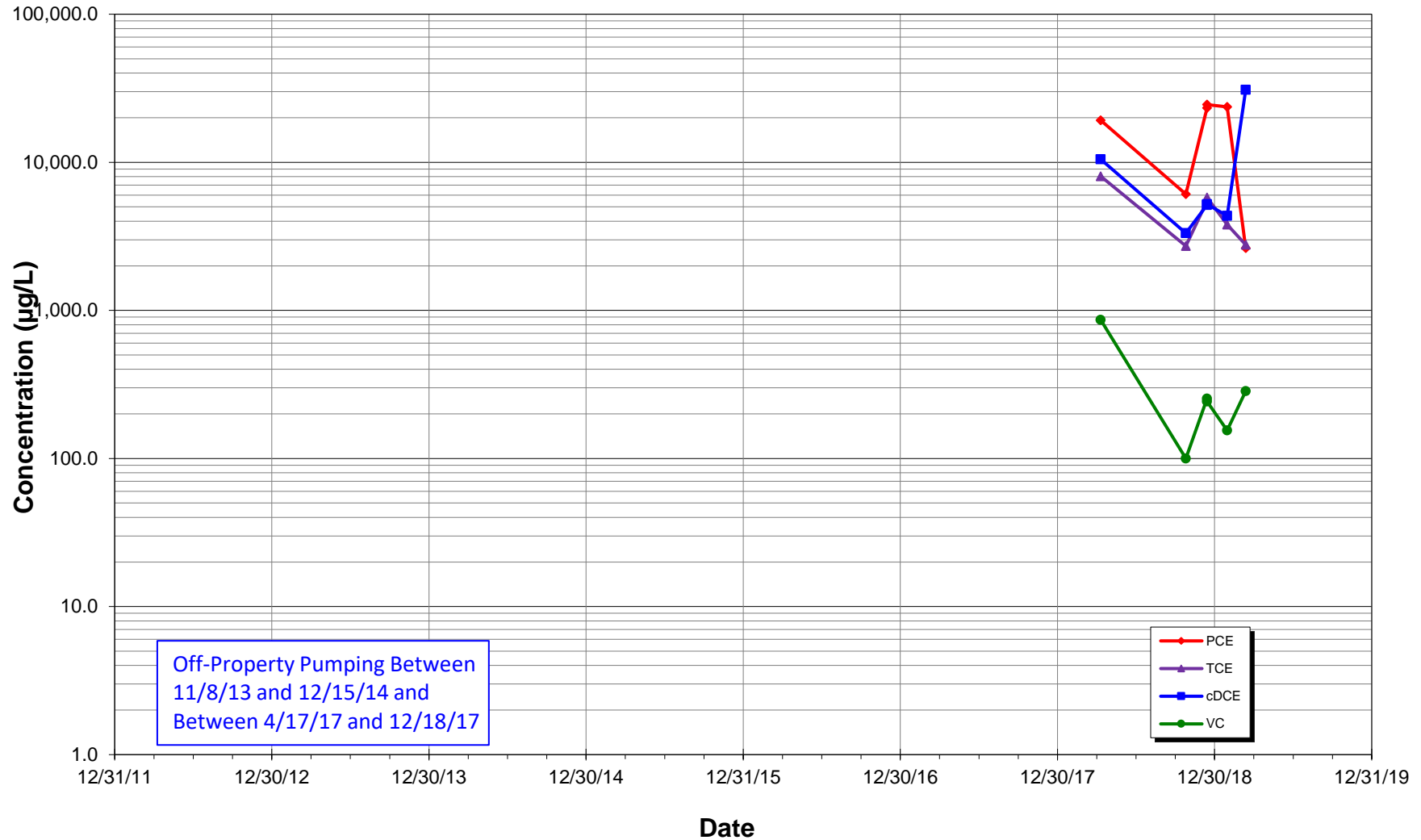
**Concentration vs Time  
MW-148  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

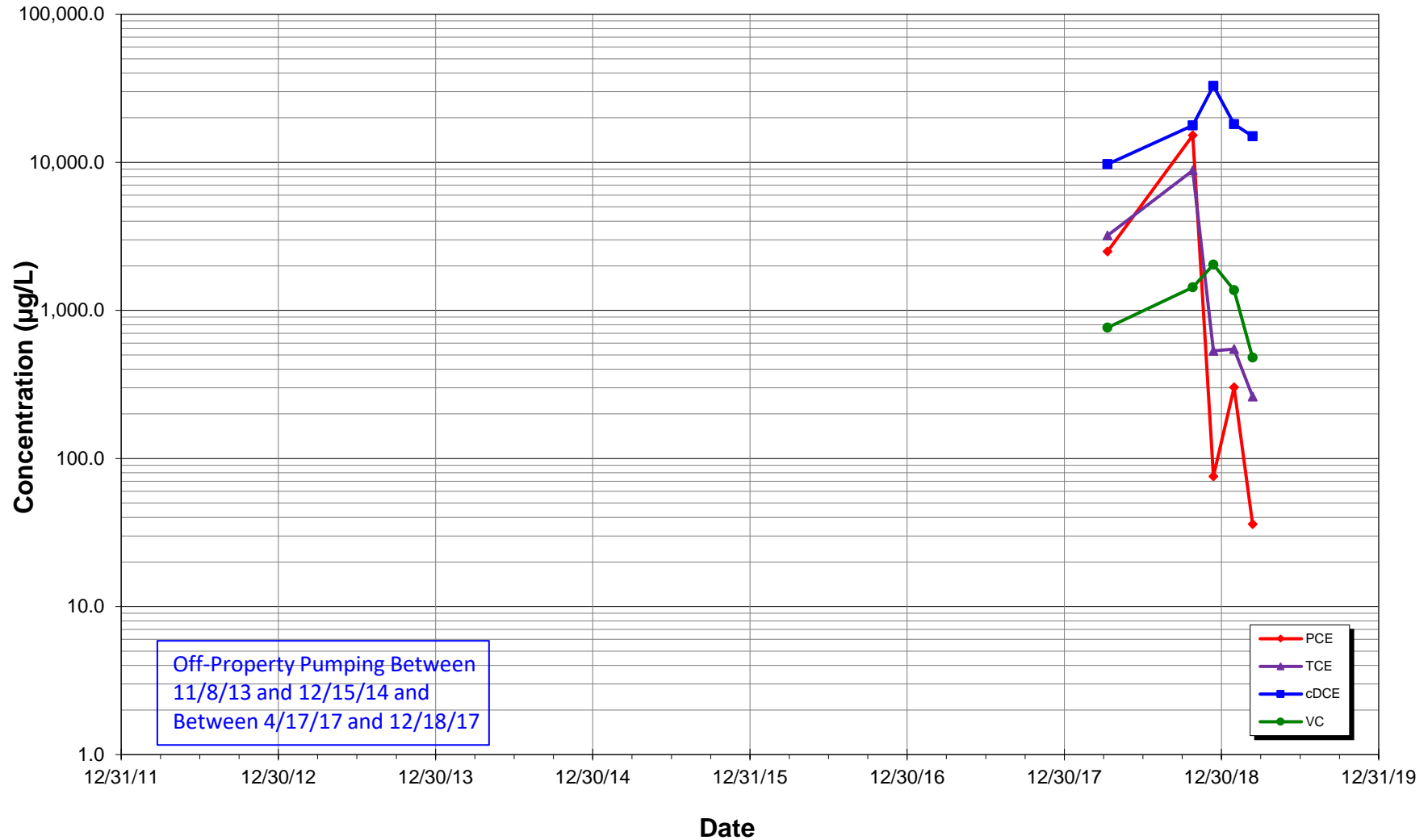
**Concentration vs Time  
MW-149  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

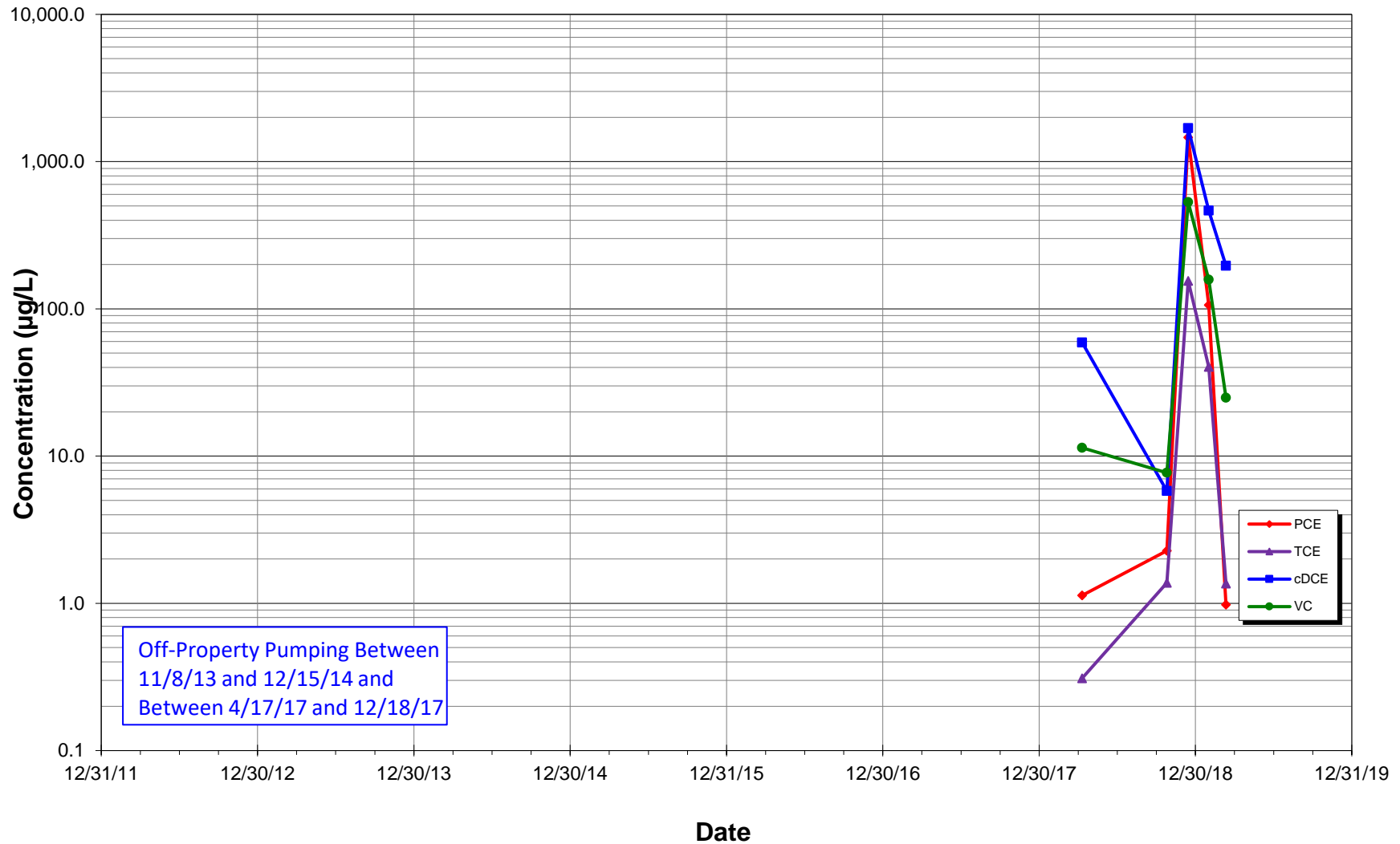
**Concentration vs Time  
MW-150  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time  
MW-151  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

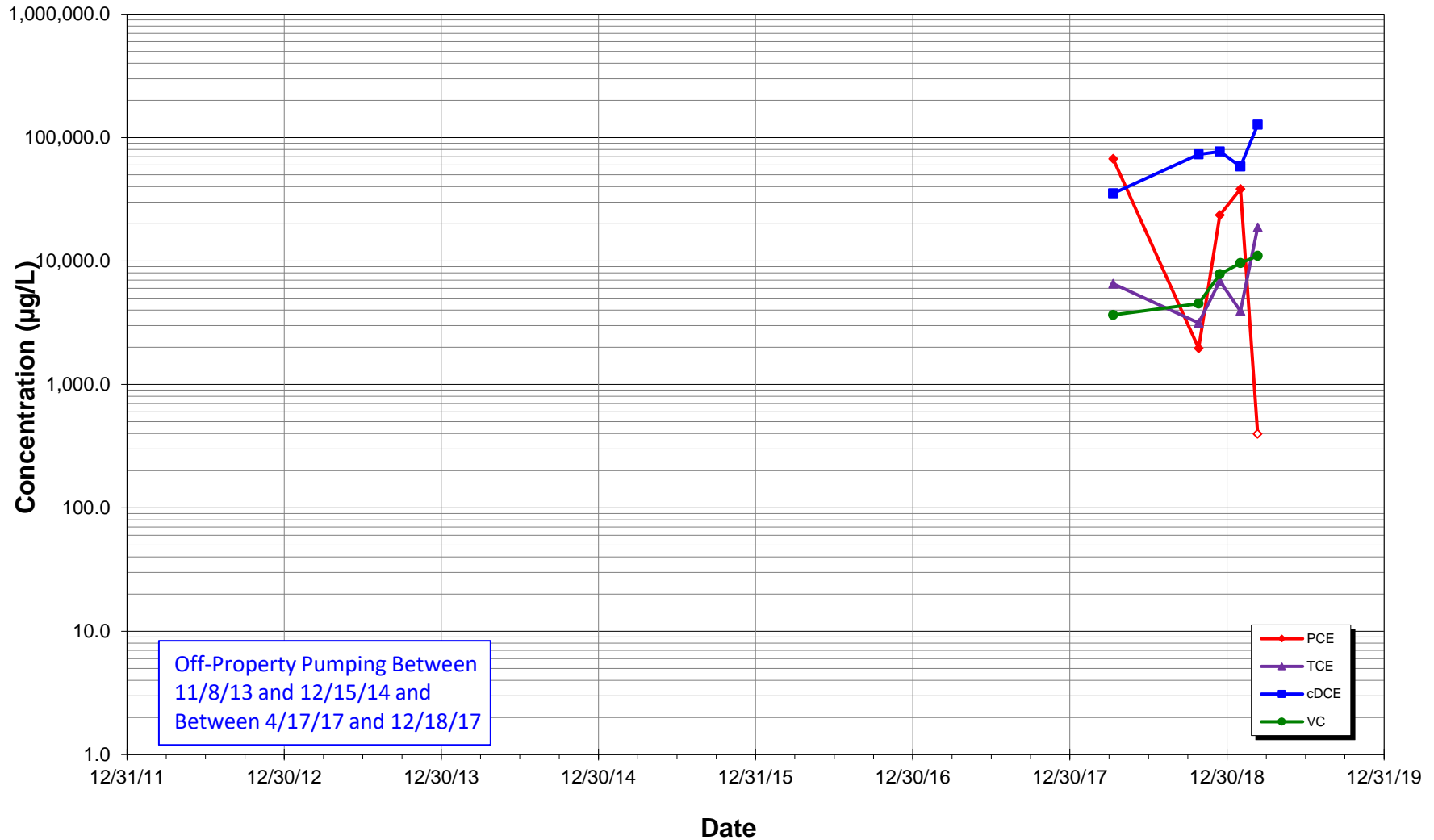


Off-Property Pumping Between 11/8/13 and 12/15/14 and Between 4/17/17 and 12/18/17

**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

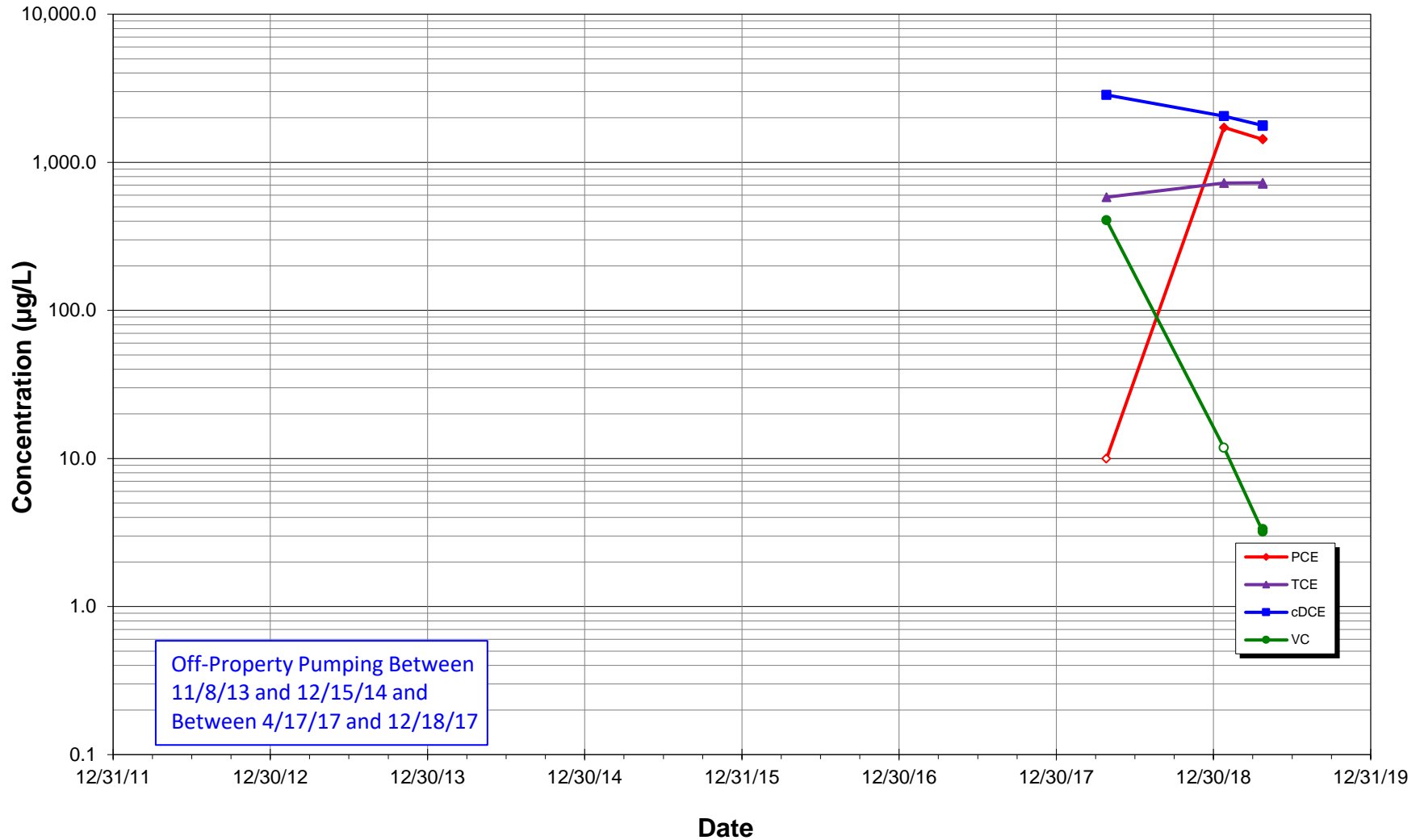
**Concentration vs Time  
MW-152  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

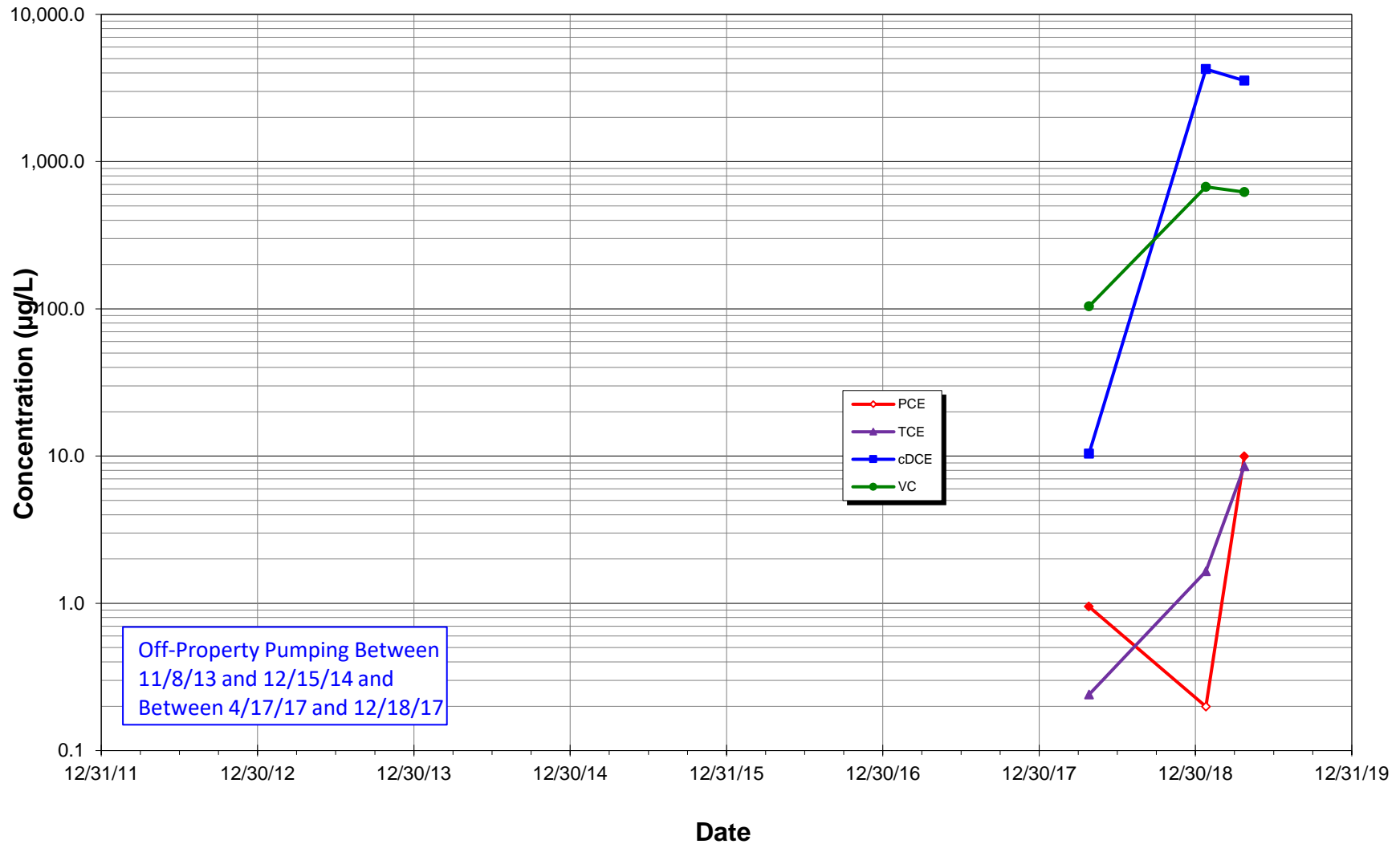
**Concentration vs Time  
MW-156  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time  
MW157  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

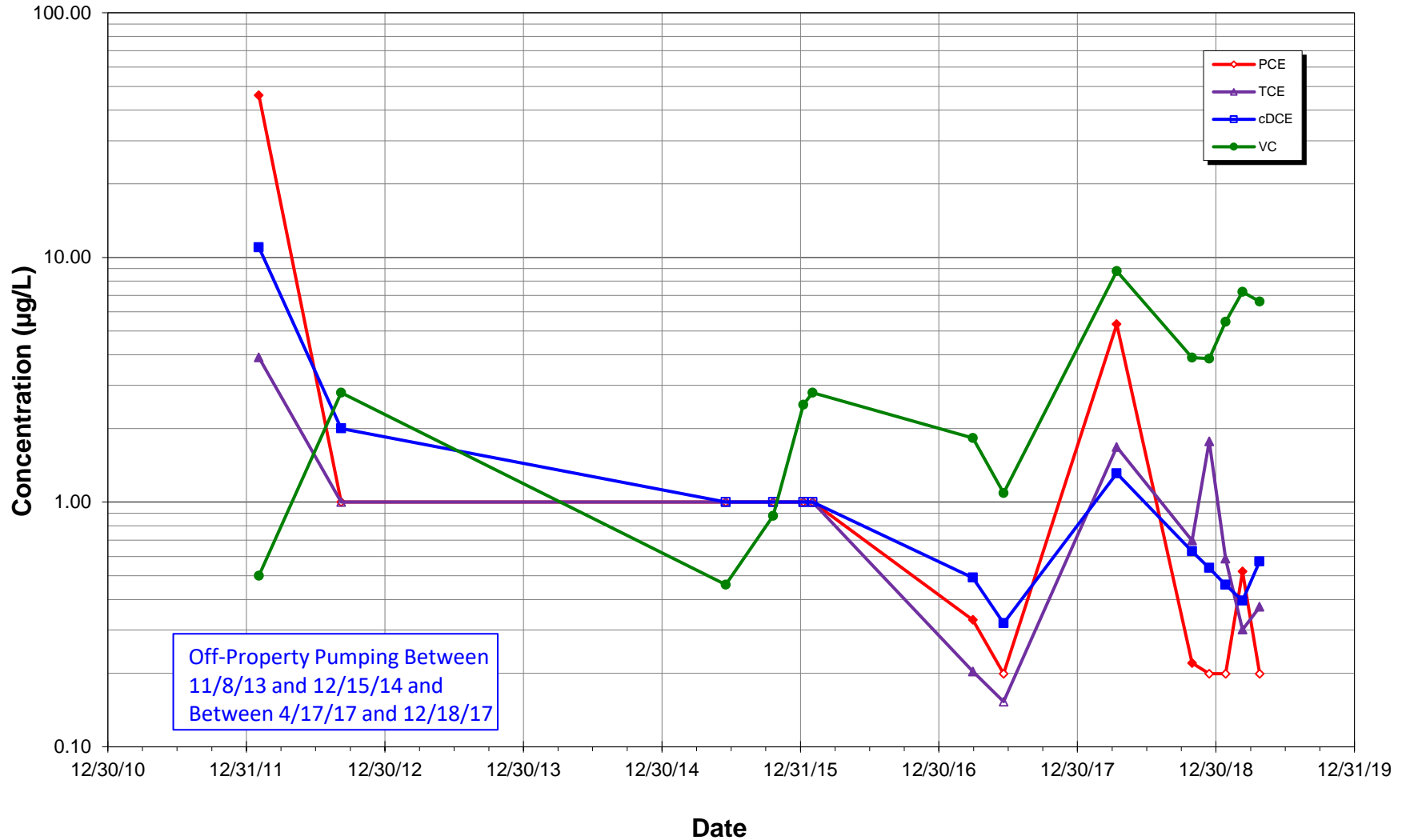


**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.



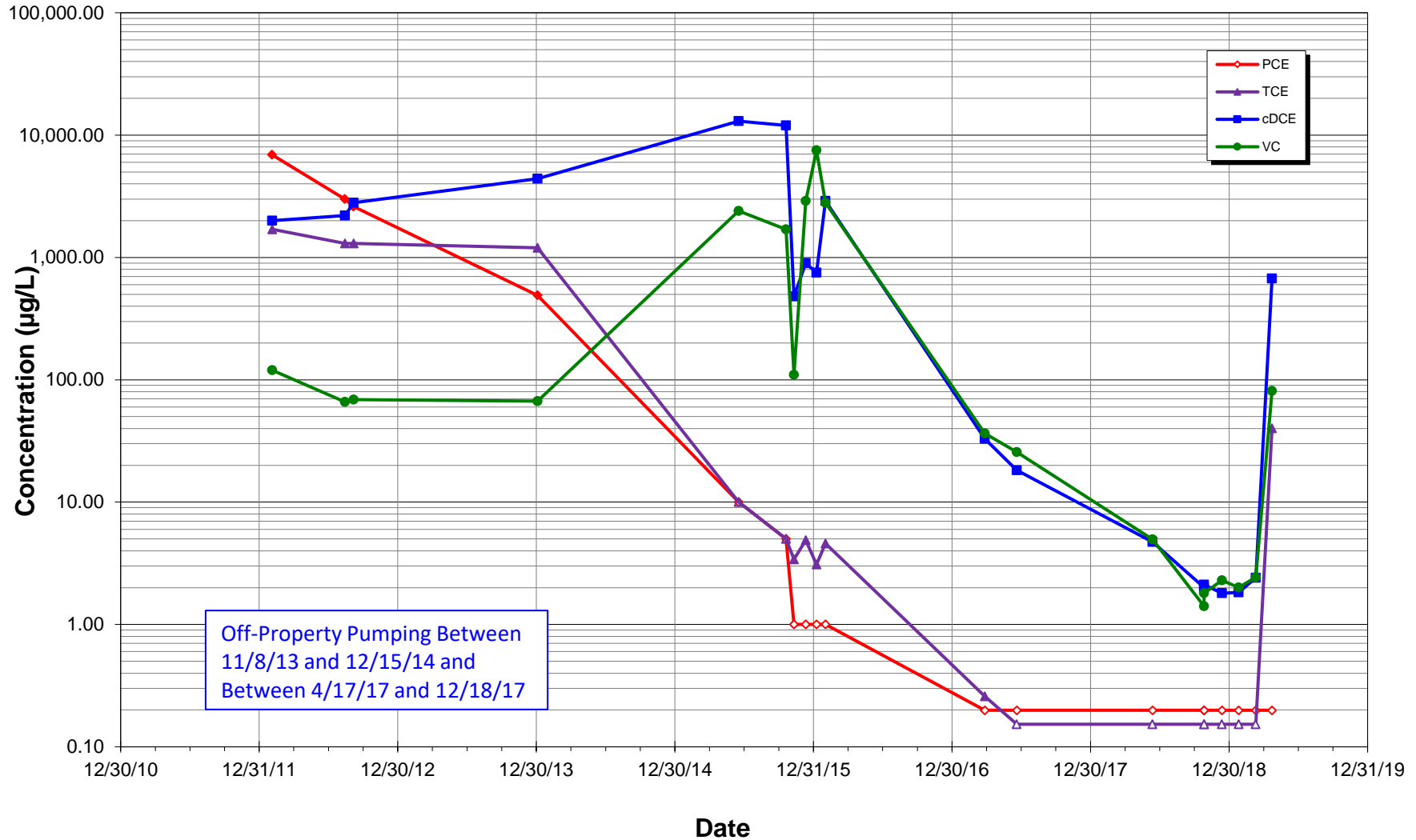
**Concentration vs Time  
W-MW-01  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time**  
**W-MW-02**  
**Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

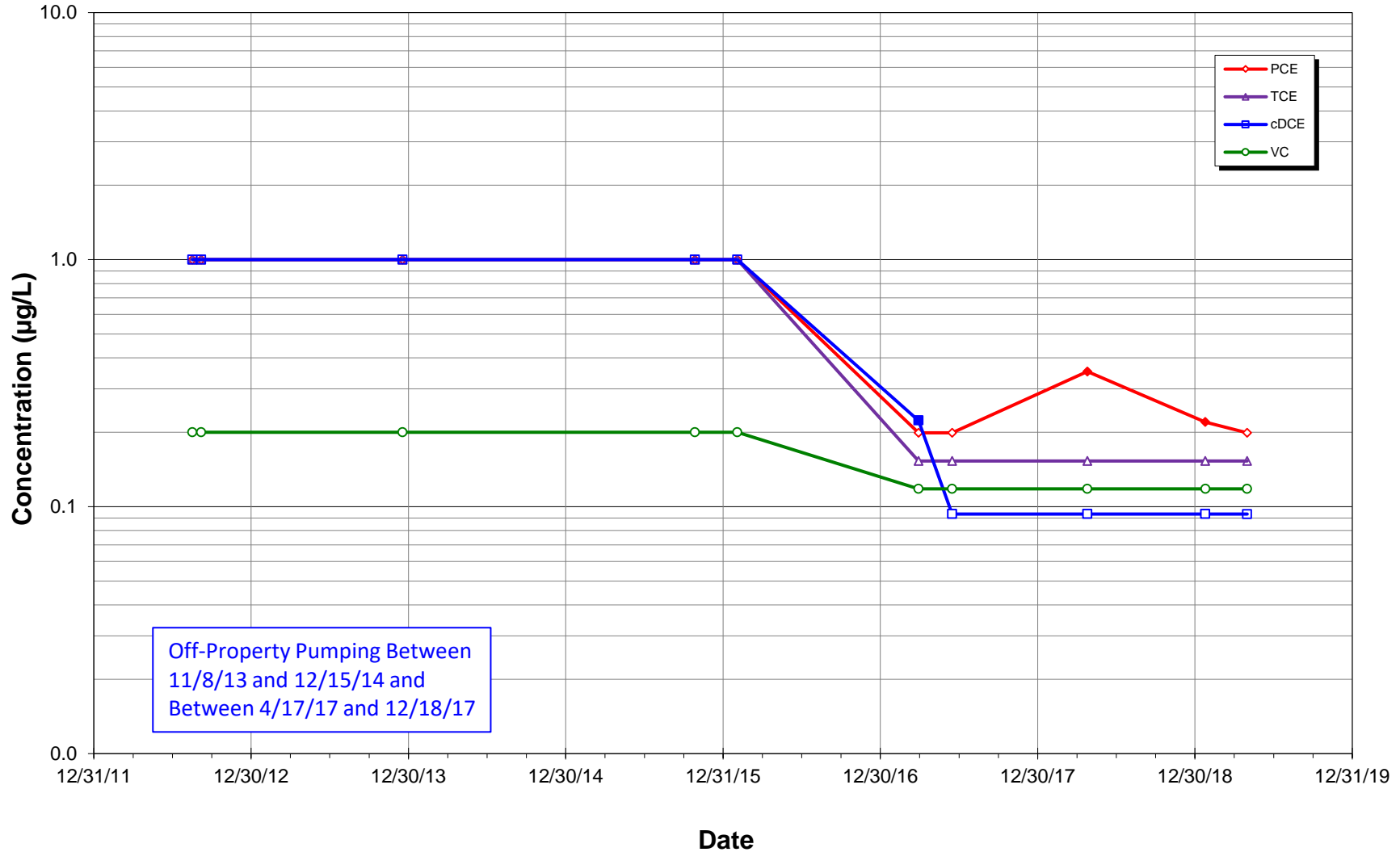


**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Attachment A**  
**Deep Well Time-Trend Plots**

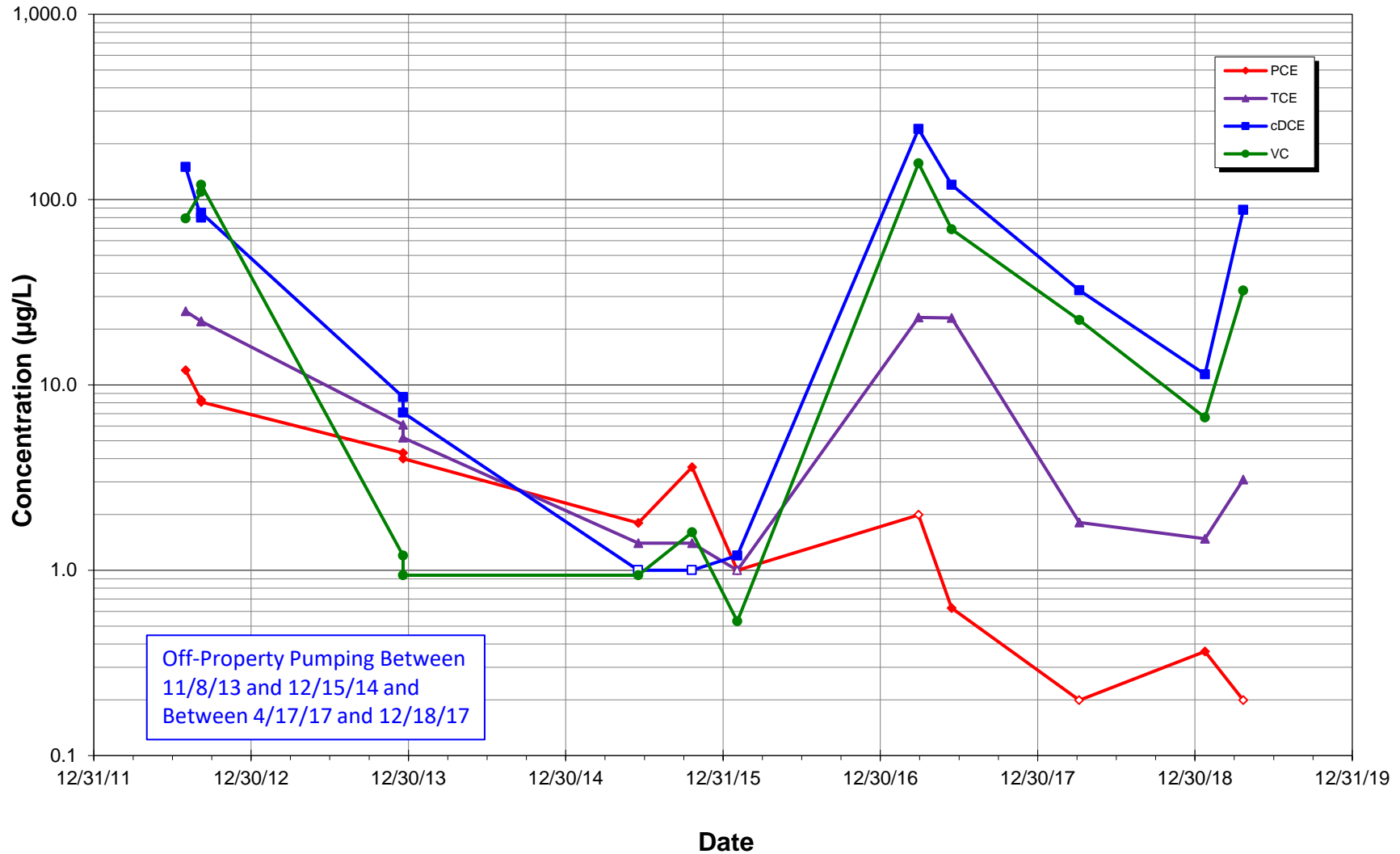
**Concentration vs Time  
MW102  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

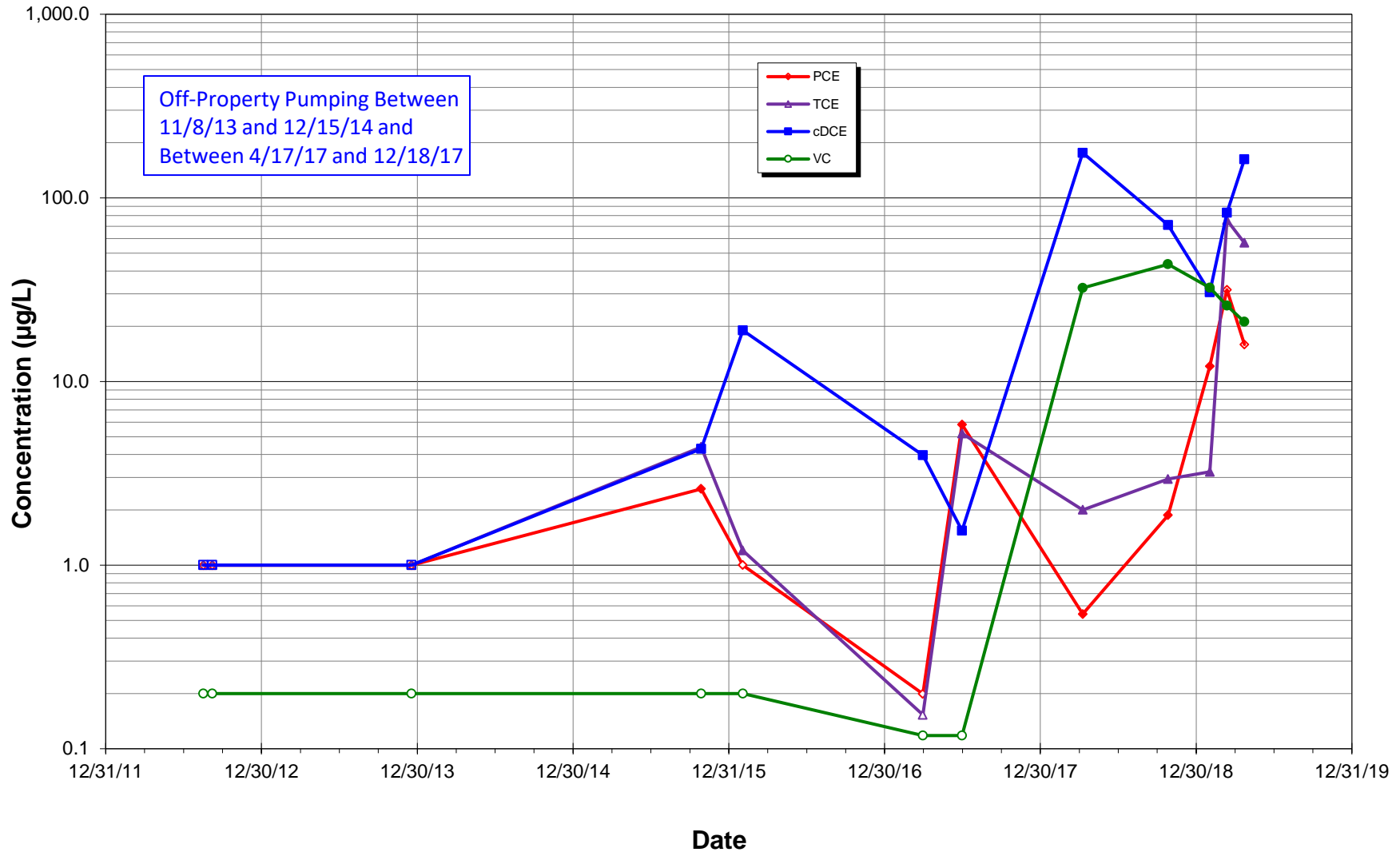
**Concentration vs Time  
MW103  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

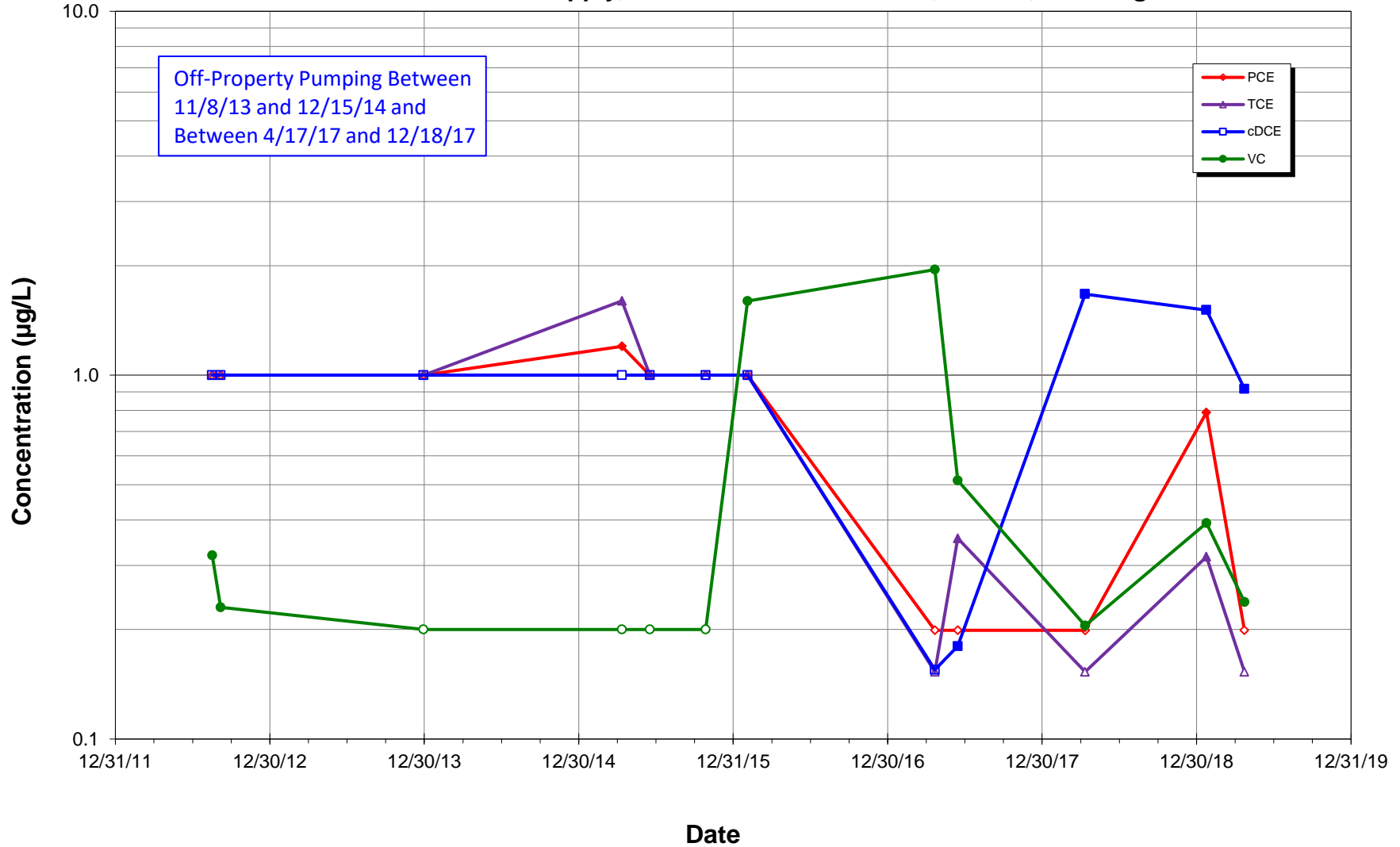
**Concentration vs Time  
MW104  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

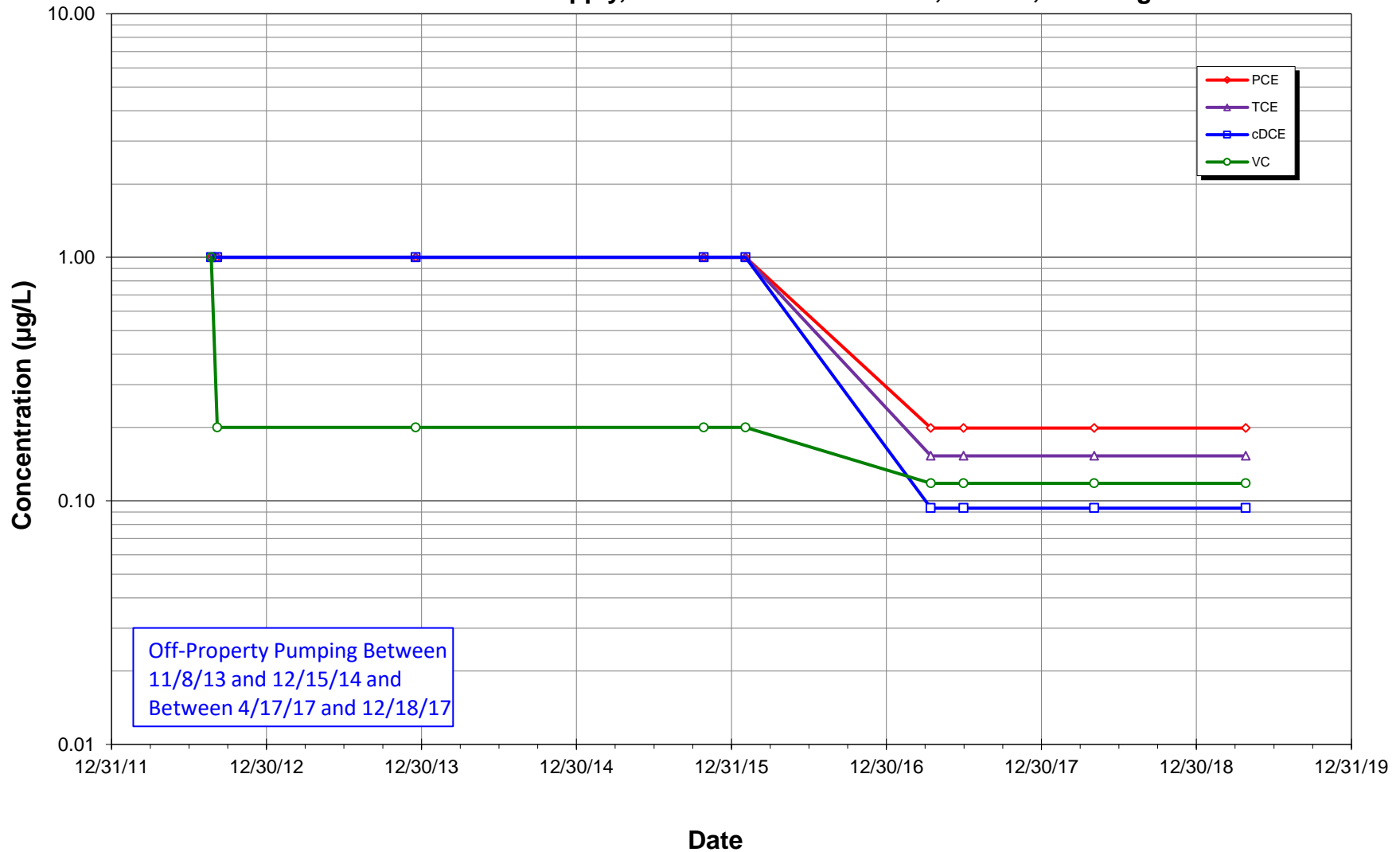
**Concentration vs Time  
MW105  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time  
MW106  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



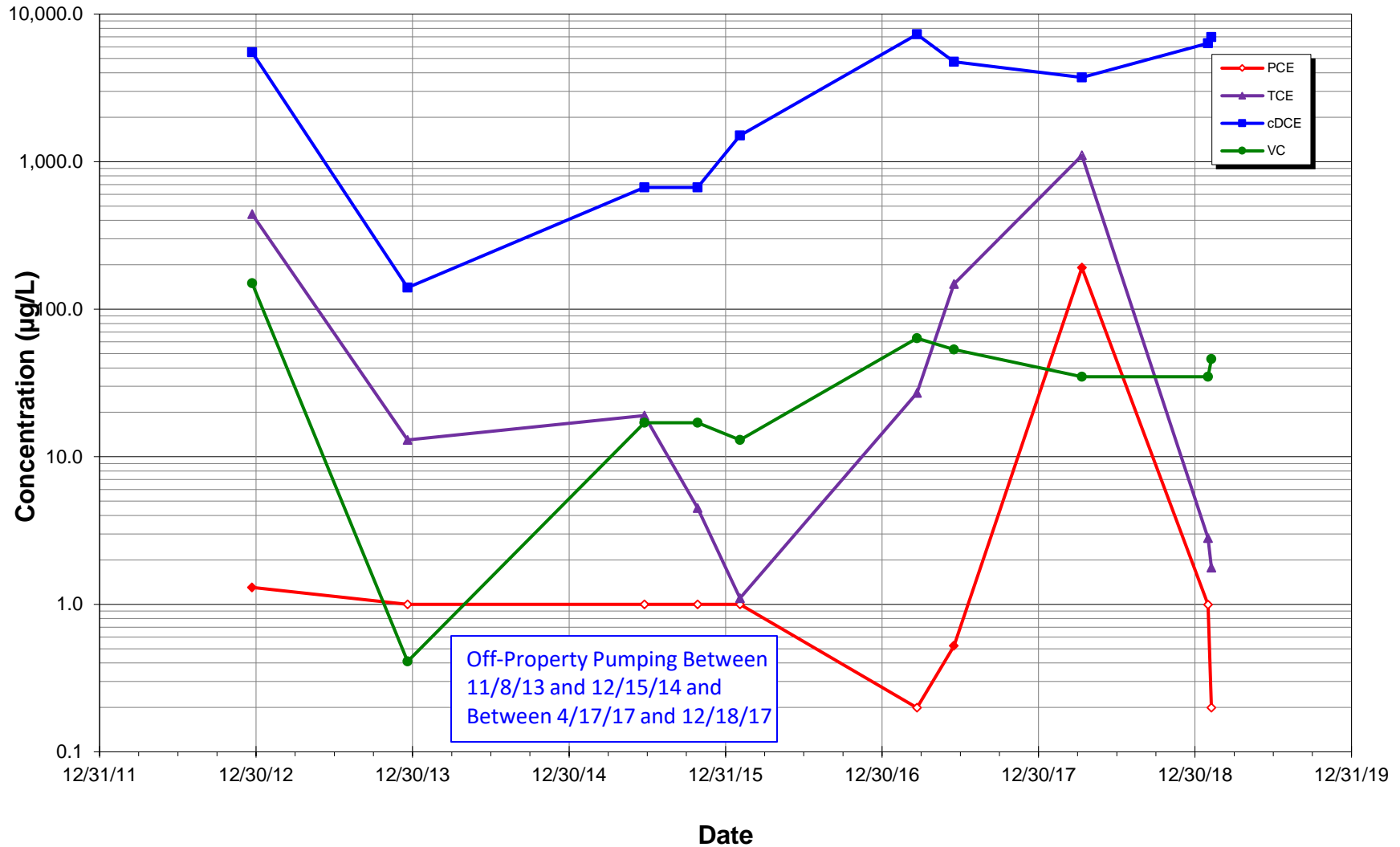
Off-Property Pumping Between  
11/8/13 and 12/15/14 and  
Between 4/17/17 and 12/18/17

**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.



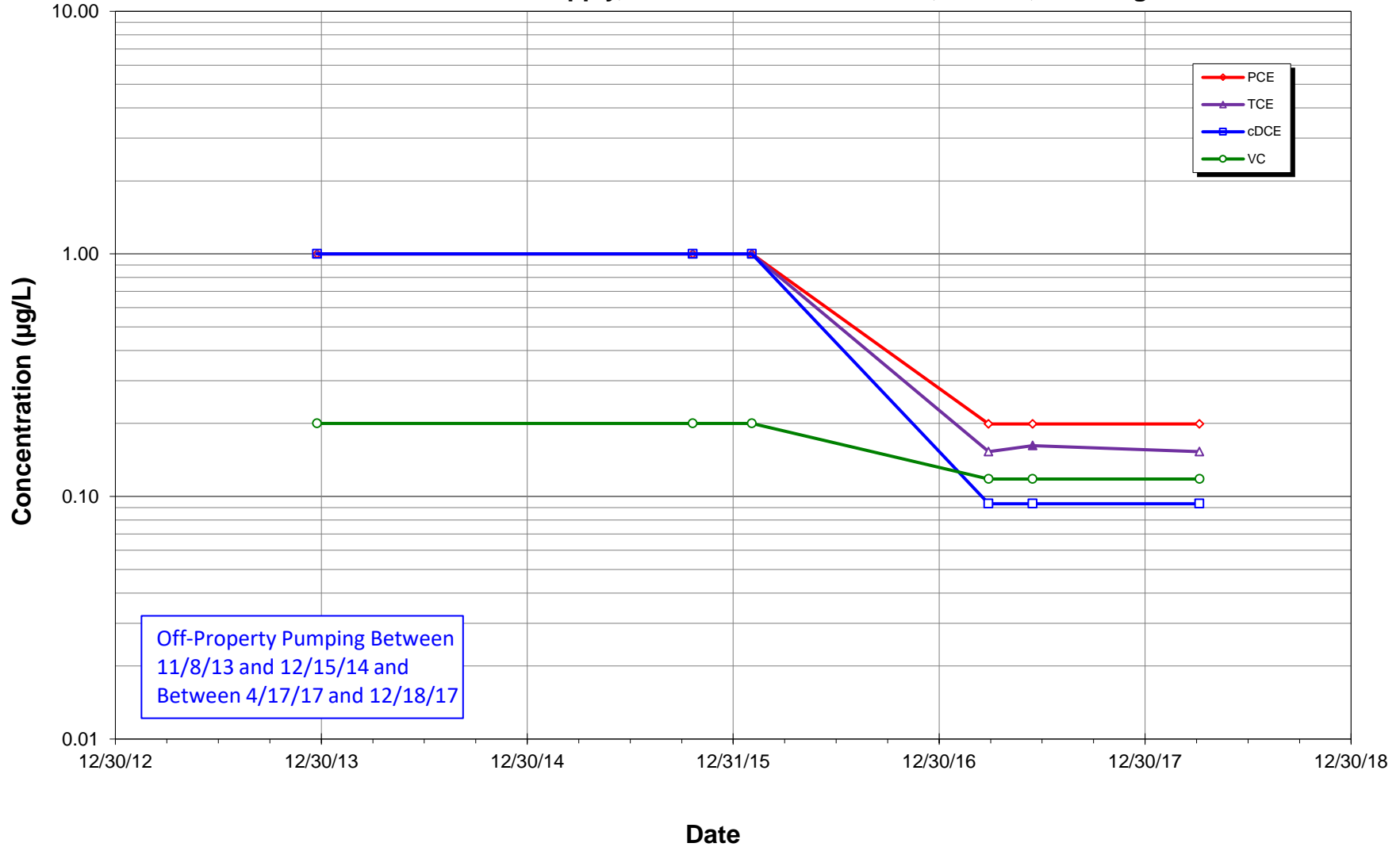
**Concentration vs Time  
MW113  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

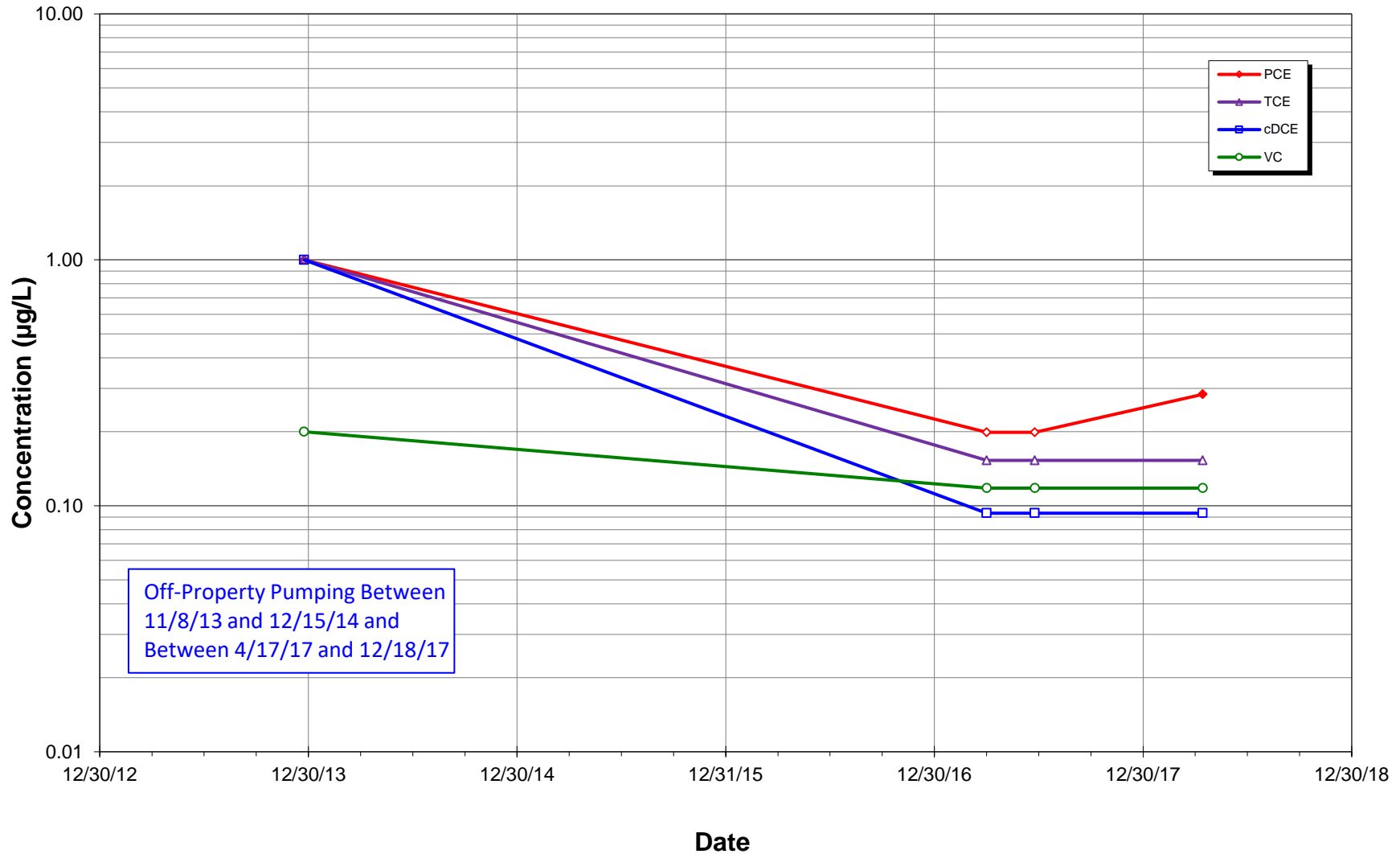
**Concentration vs Time**  
**MW122**  
**Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

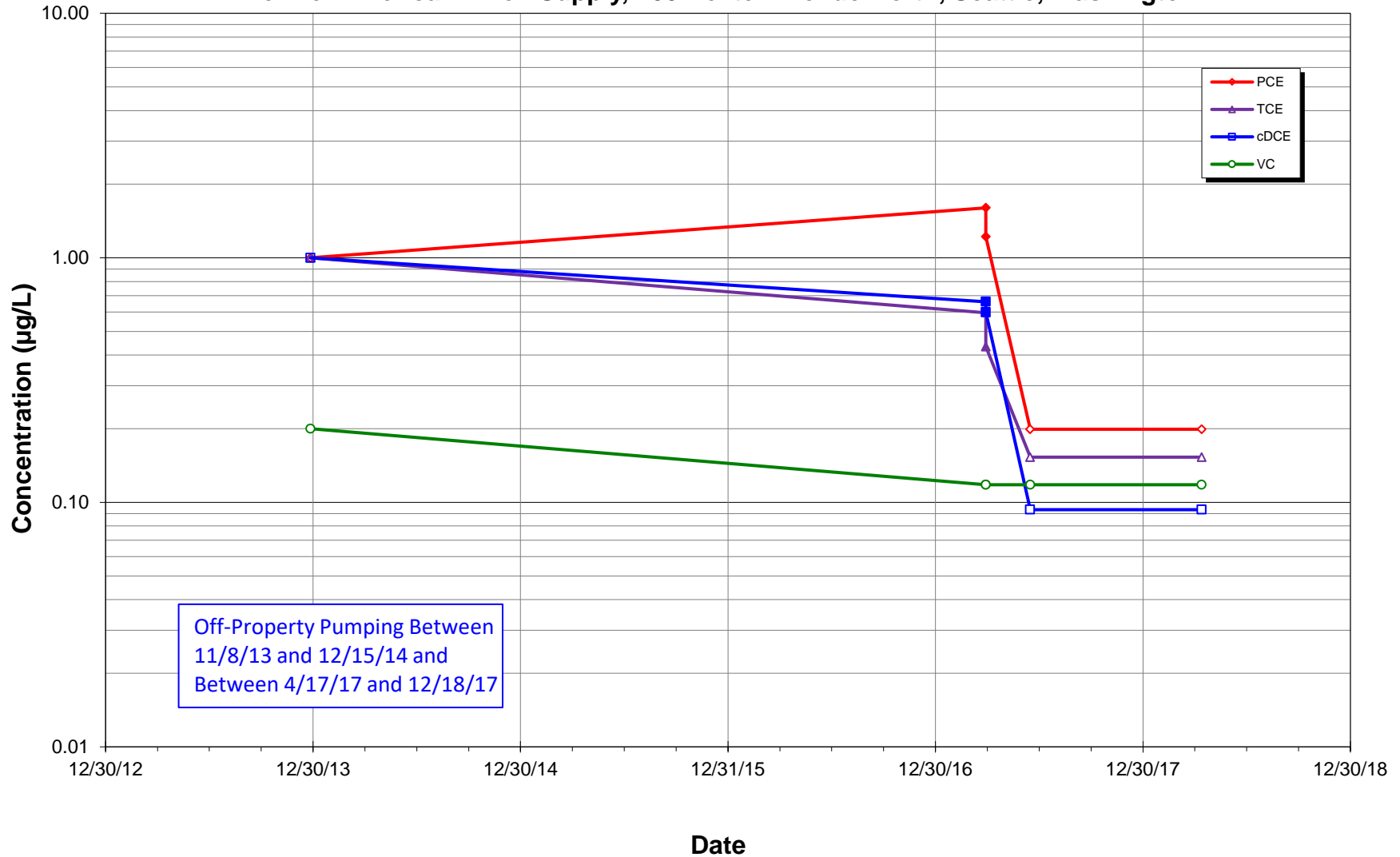
**Concentration vs Time  
MW123  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

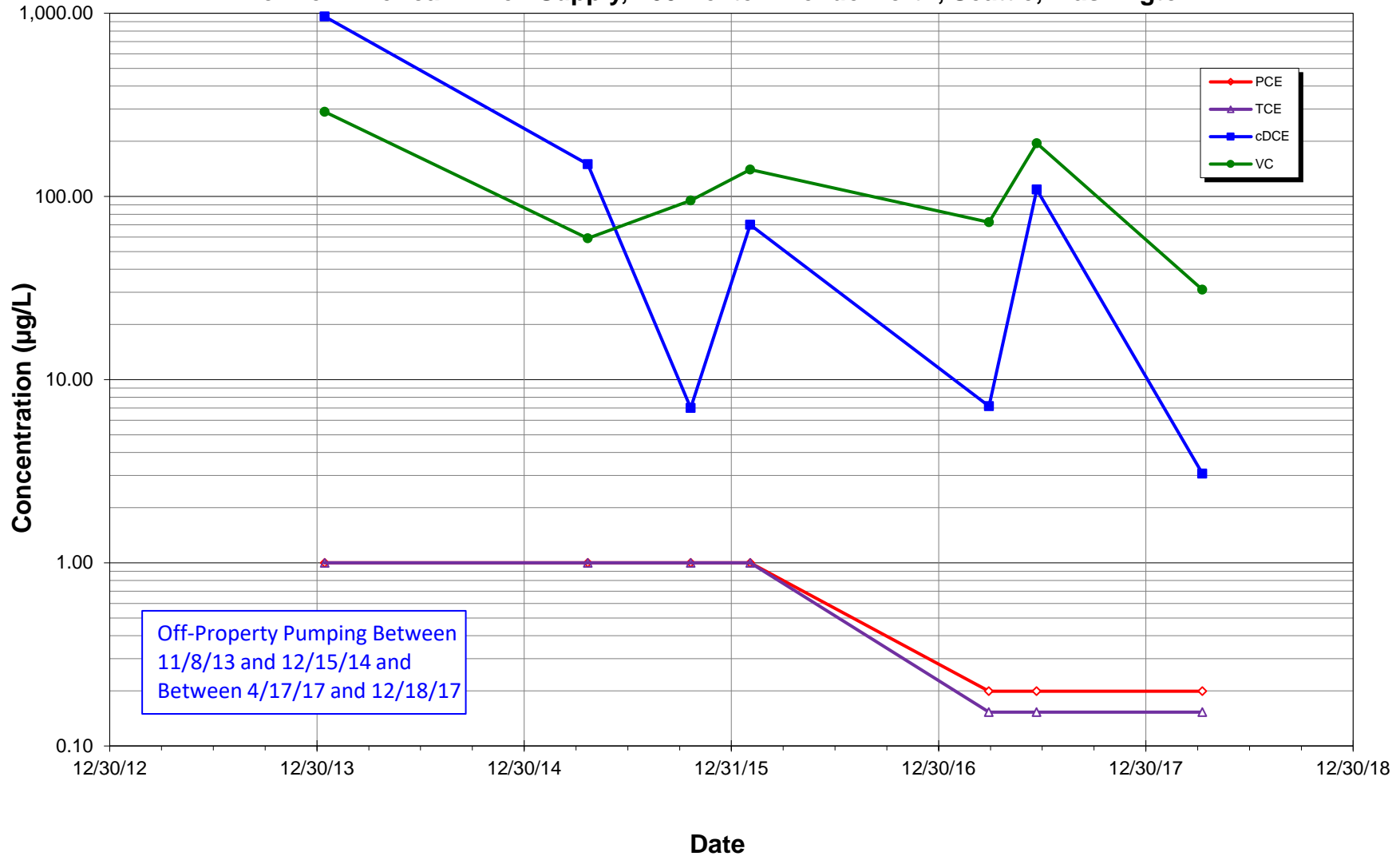
**Concentration vs Time  
MW124  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

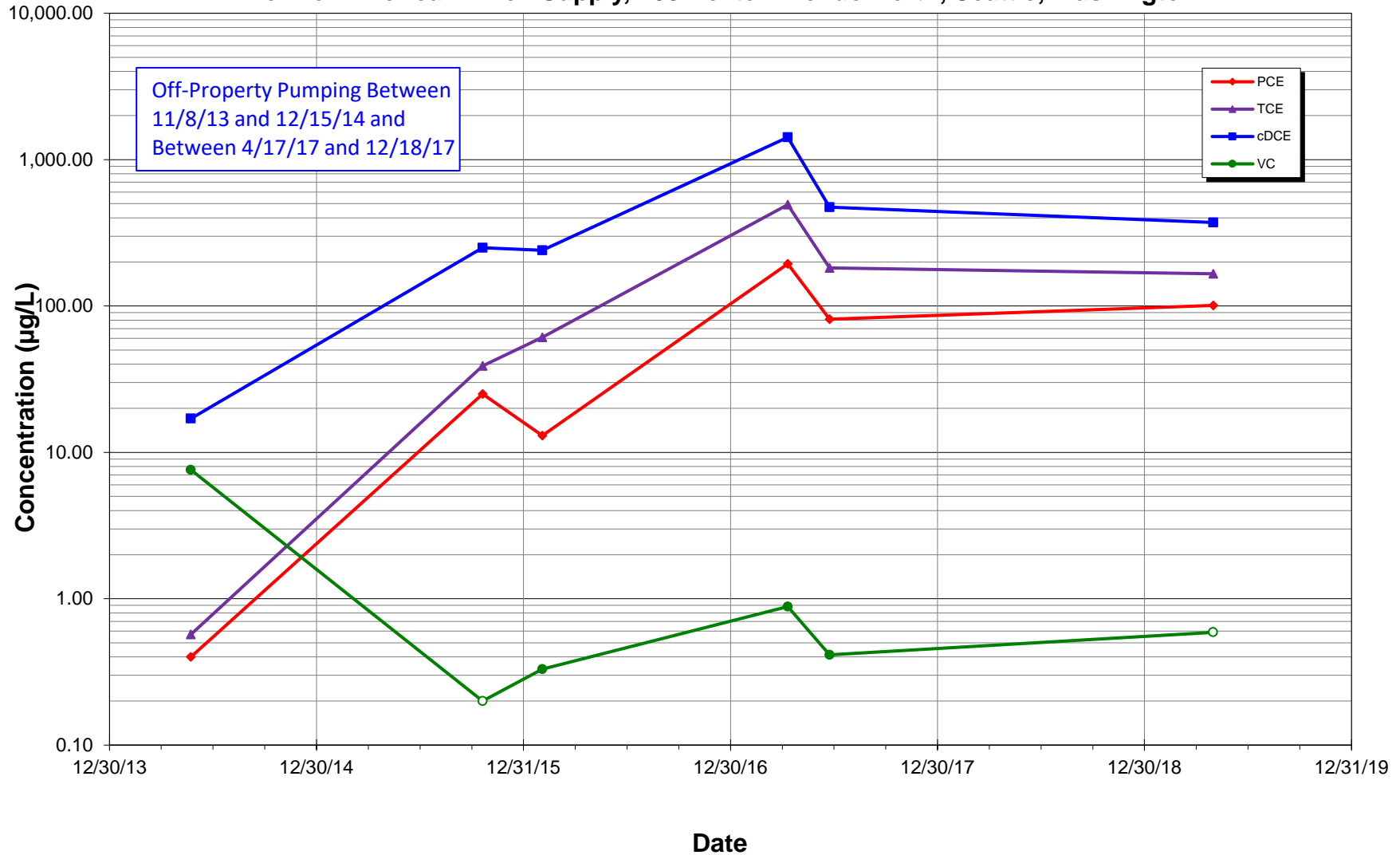
**Concentration vs Time  
MW128  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

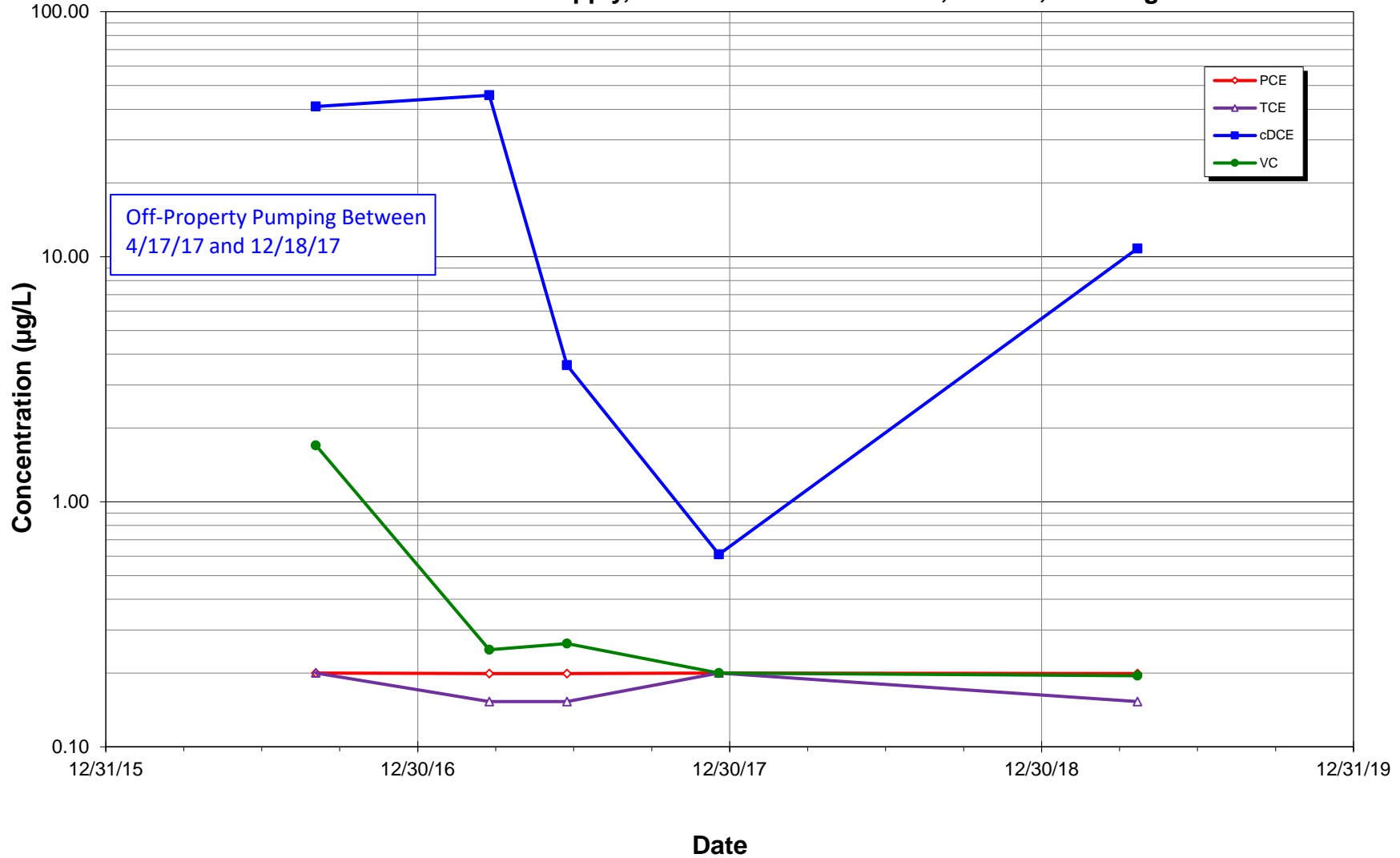
**Concentration vs Time  
FMW-129  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time  
FMW-131  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time  
MW133  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.



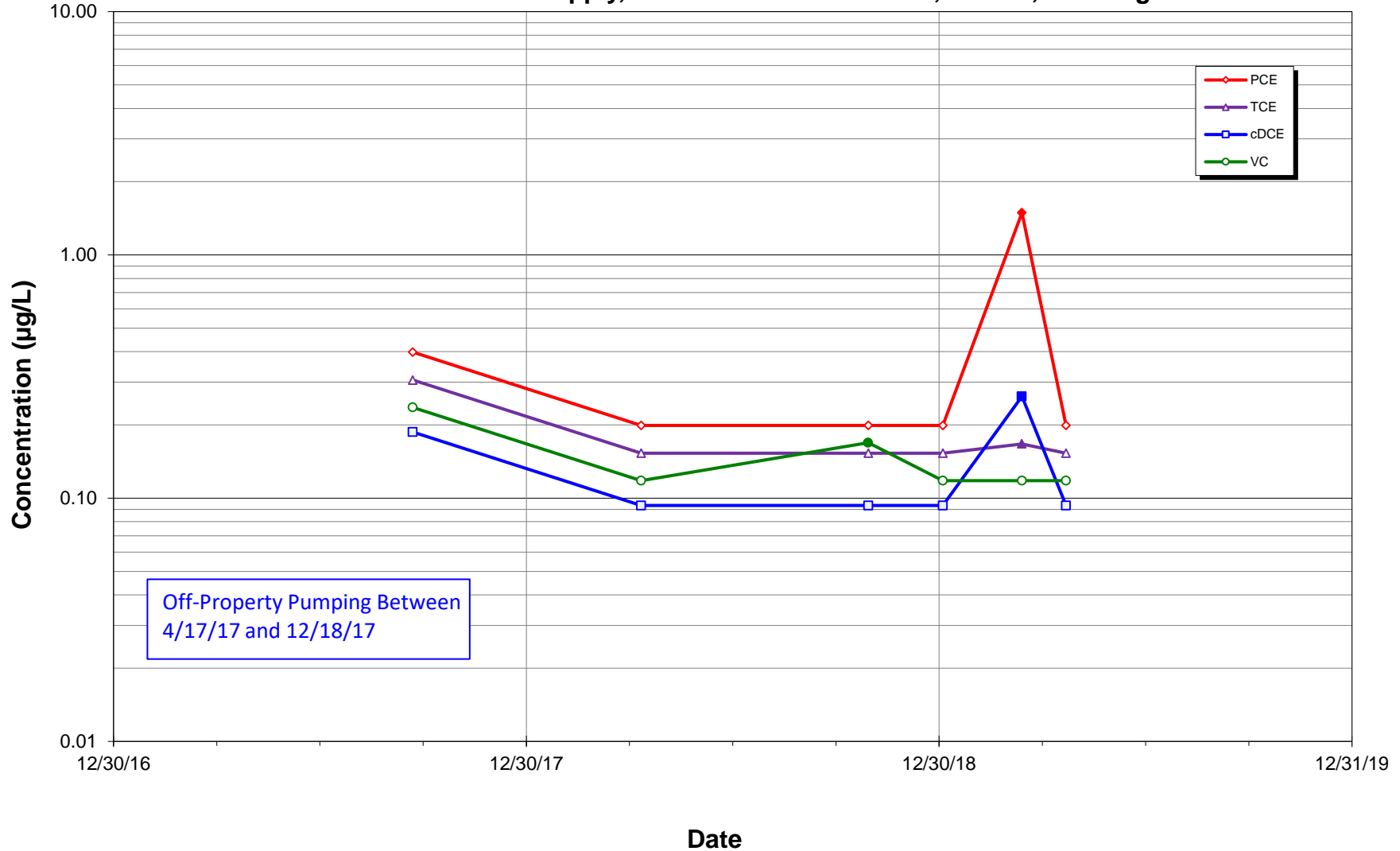
**Concentration vs Time  
MW137  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

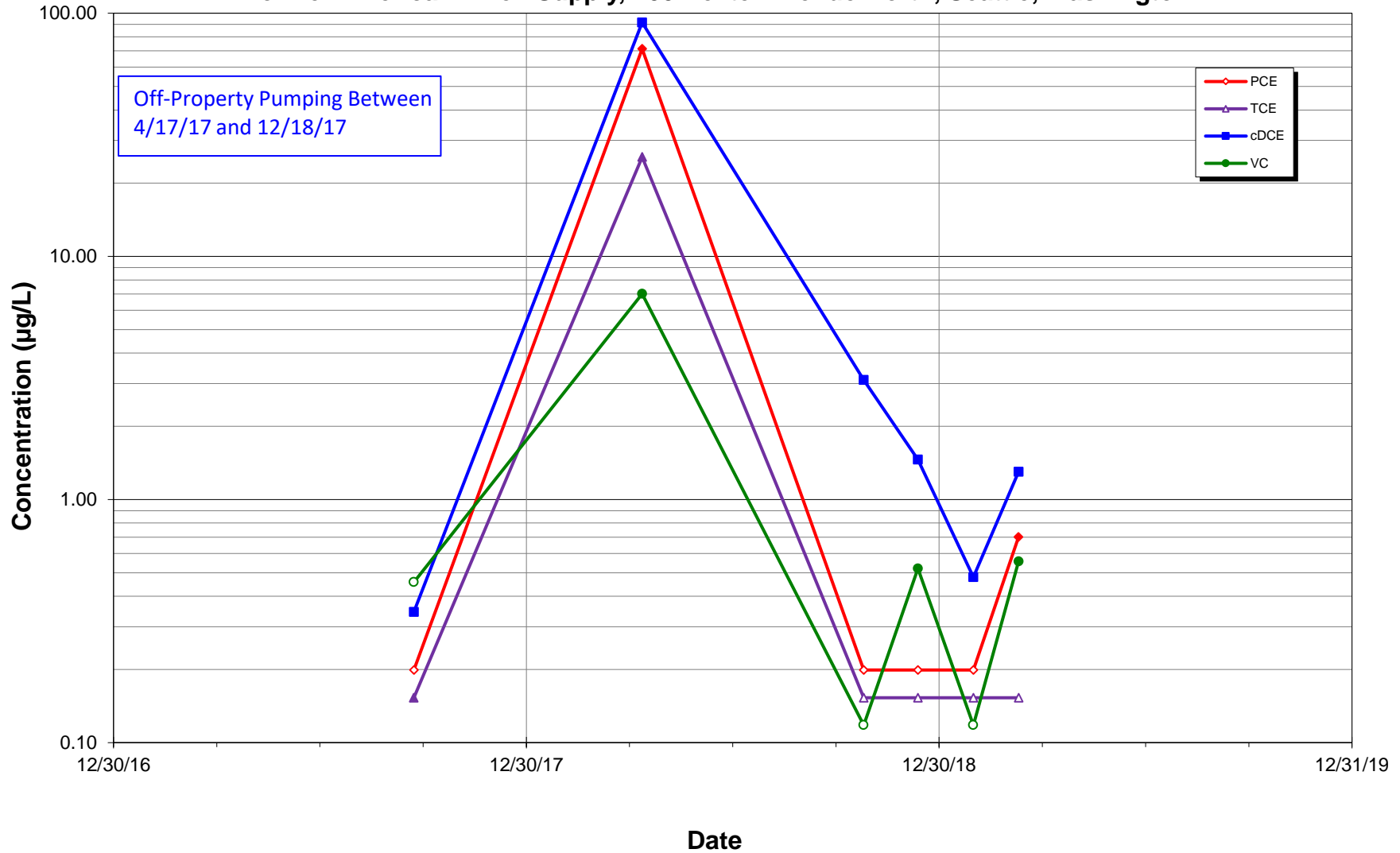
**Concentration vs Time  
MW138  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

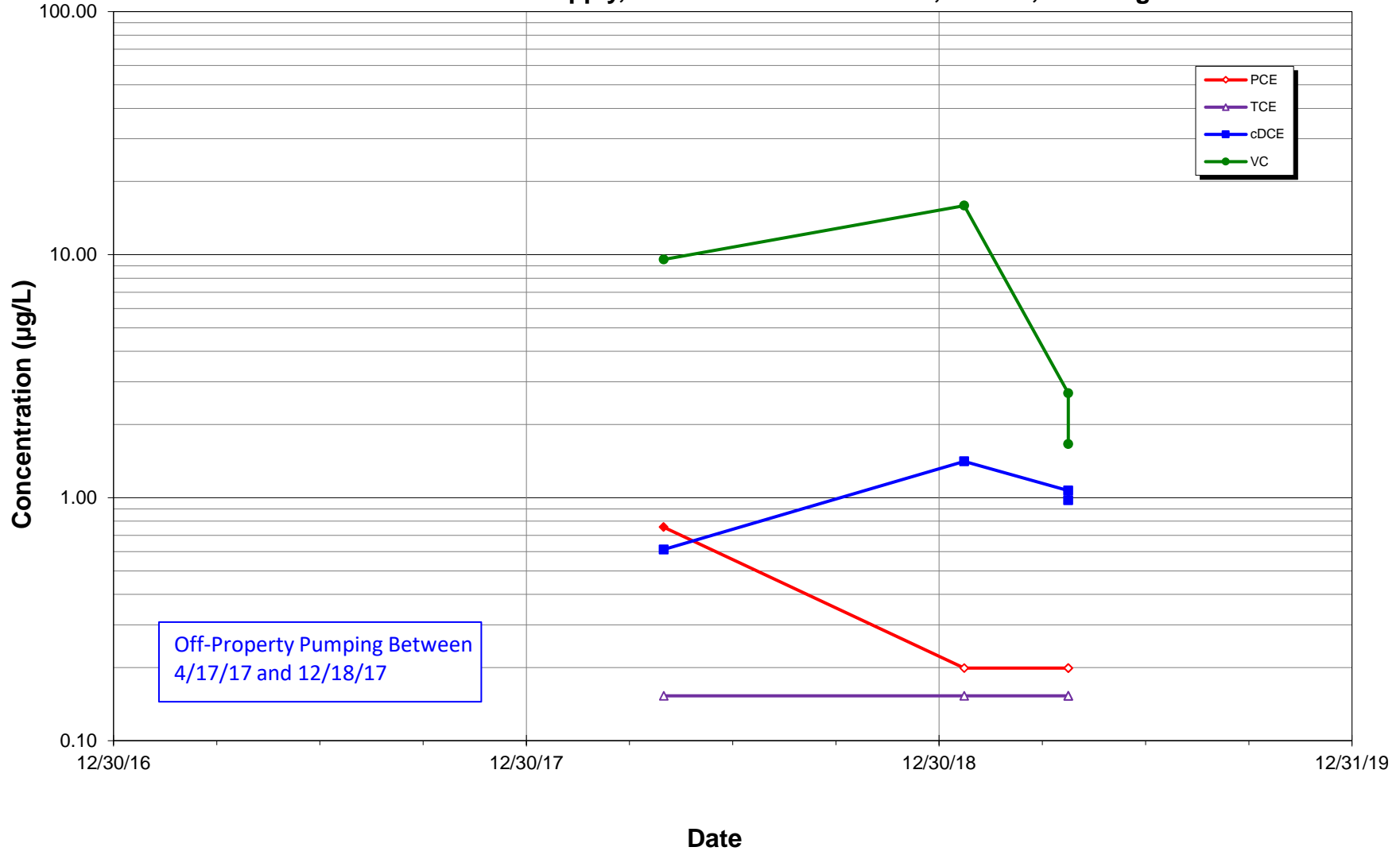
- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time  
MW141  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**  
 1) All results detected below the laboratory MDLs are shown as hollow data points .  
 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

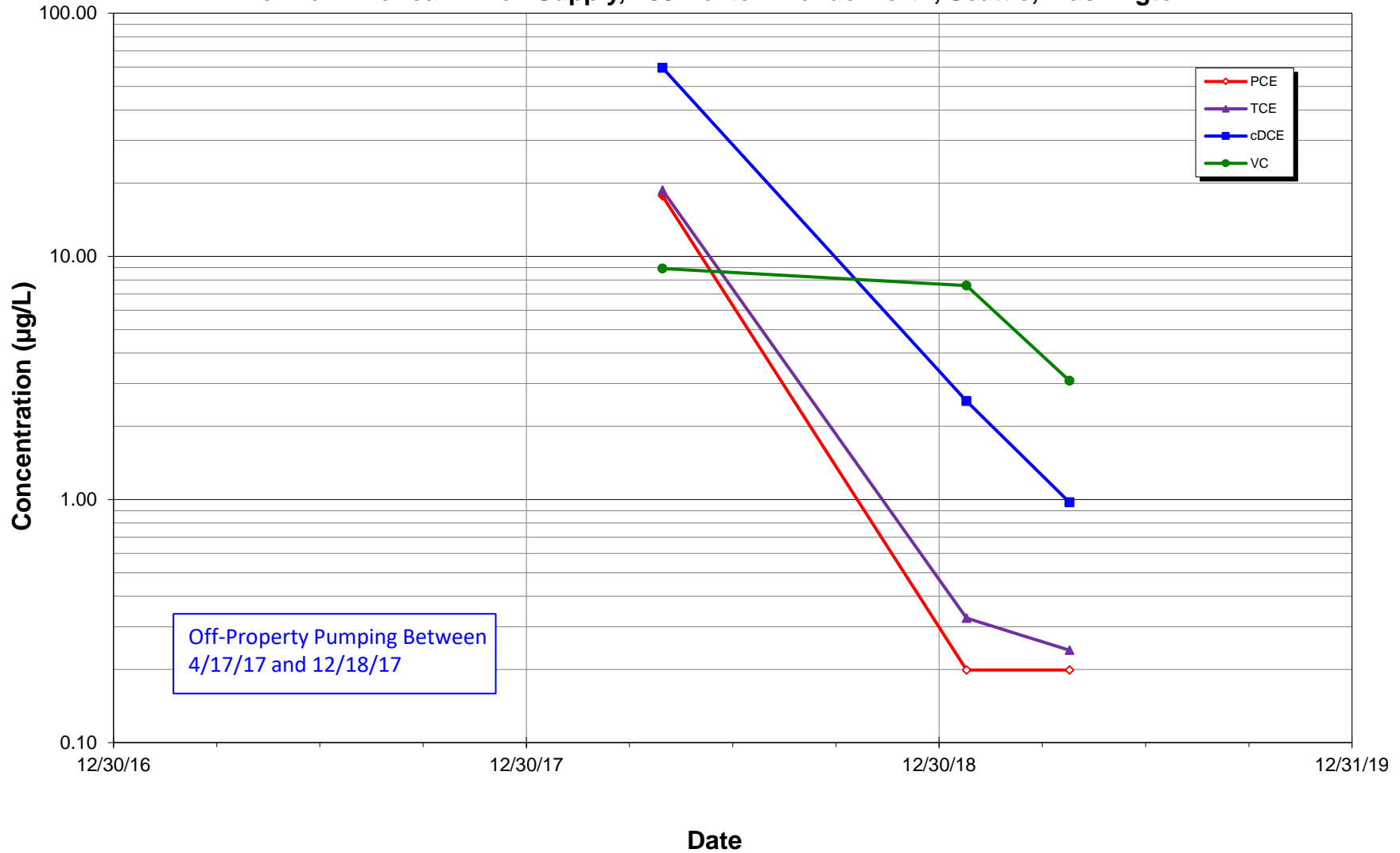
**Concentration vs Time  
MW153  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

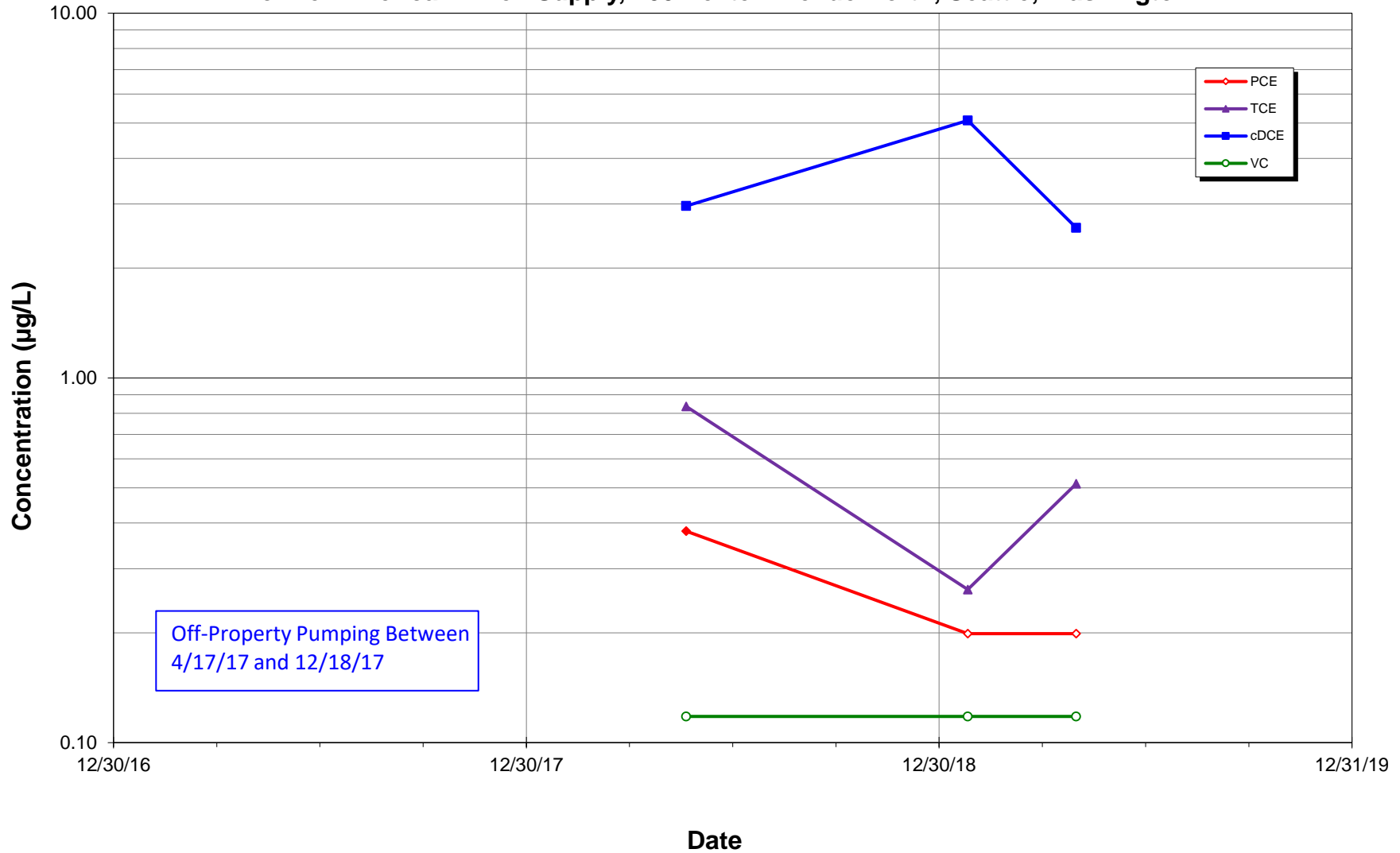
**Concentration vs Time**  
**MW158A**  
**Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

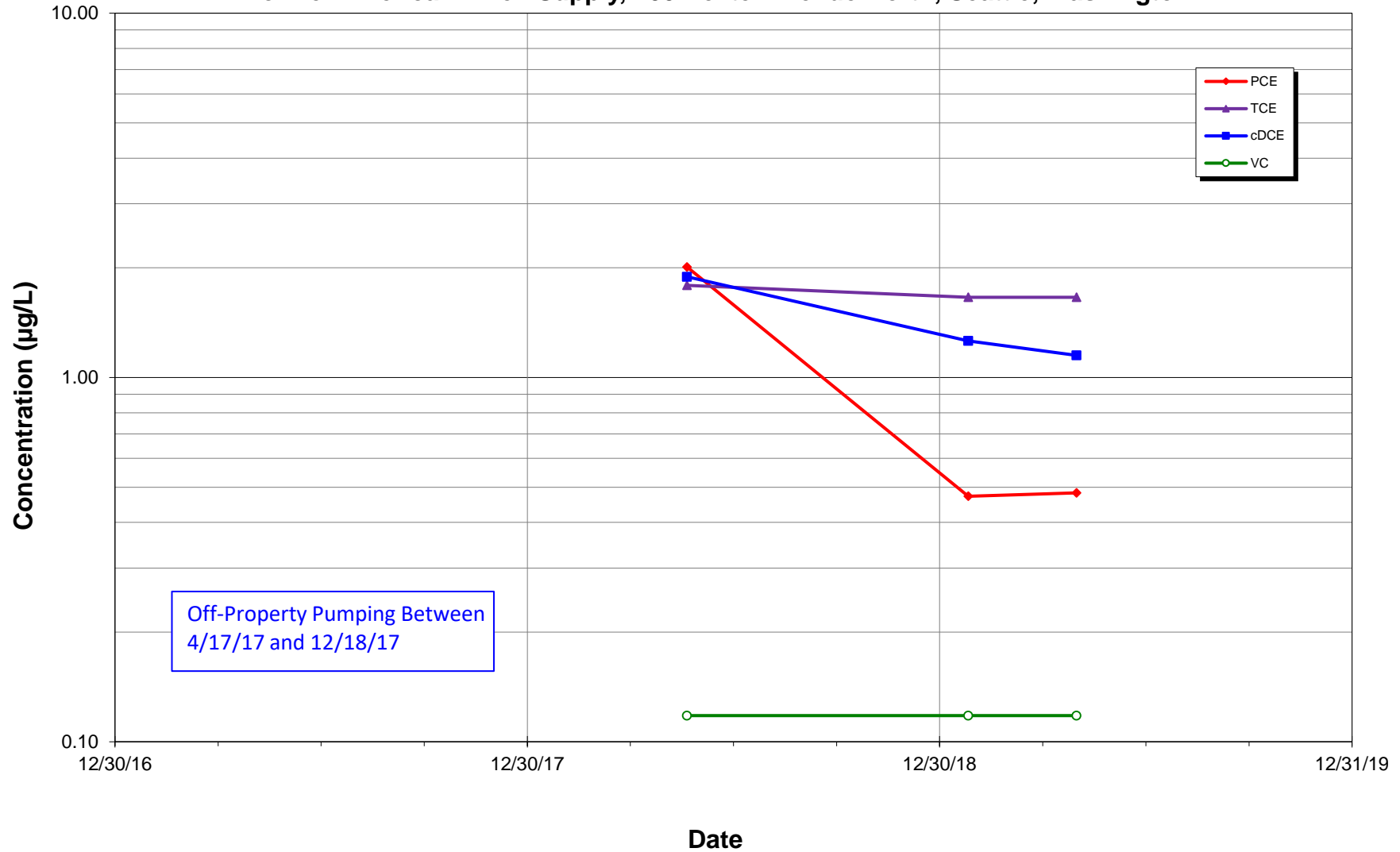
**Concentration vs Time  
MW160  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

**Concentration vs Time**  
**MW161**  
**Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**



**Notes:**

- 1) All results detected below the laboratory MDLs are shown as hollow data points .
- 2) Preliminary Screening Levels: PCE = 1 µg/L, TCE = 1 µg/L, cDCE = 16 µg/L, and VC = 0.2 µg/L.

## MEMORANDUM

**TO:** Project File **DATE:** May 23, 2019

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** American Linen Data Validation

**PROJECT #:** 1413.001.05.601

**TASK:** EIM Data Validation Level EPA2A for April and May 2019 – Groundwater and Soil Vapor Samples

**LAB:** Pace Sample Delivery Groups (SDGs): L1091511, L1091936, L1091958, L1092400, L1092440, L1092880, L1093242, L1094387, L1094414, L1095166, and L1095349

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Fifty-one (51) groundwater samples (including four field duplicates), four (4) soil vapor samples (including one field duplicate), one (1) equipment blank, and ten (10) trip blanks were collected as Round 2 Quarterly Monitoring sampling event at the Former American Linen Supply Site, in Seattle, Washington, between April 22, 2019 and May 3, 2019. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- VOCs by USEPA Method TO-15;
- Total petroleum hydrocarbons as gasoline (TPH-Gx) by NWTPH-Gx per analytical method stipulated by Washington State Department of Ecology;
- VOCs by EPA SOP RSK 175;
- Alkalinity by Method 2320 B-2011;
- Anions (Chloride, Nitrate, and Sulfate) by USEPA Method 9056A;
- Total Organic Carbon (TOC) by USEPA Method 9060A; and
- Metals (iron and manganese) by USEPA Method 6020A.

Samples were collected between April 22 and May 3, 2019 and results are reported in eleven Pace SDGs (L1091511, L1091936, L1091958, L1092400, L1092440, L1092880, L1093242, L1094387, L1094414, L1095166, and L1095349). The quality assurance review of the sample data is summarized below.

### DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with PACE control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for



Superfund Organic Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

## **DATA VALIDATION**

### **Completeness**

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

- SDG L1091936: Review of the chain of custody (COC) and email communication between Pace and PES indicate that analyses requests were revised on April 24, 2019 for the following:
  - Sample MW155- 042319 analyses request was limited to VOCs by USEPA Method 8260 and gasoline by NWTPH-Gx.
  - Samples MW103- 042219 and MW111-042219 analyses requests were limited to VOCs by USEPA Method 8260.
  - Samples MW104-042319, MW105-042319, and MW147-042319 analyses requests included gasoline by NWTPH-Gx.
- SDG L1091958: Review of the chain of custody (COC) and email communication between Pace and PES indicate that analyses requests were revised on April 24, 2019 for the following:
  - Sample MW155- 042319 analyses request was limited to VOCs by USEPA Method 8260 and gasoline by NWTPH-Gx.
- SDG L1092400: Two copies of the COC form are provided for review. Pace was contacted to clarify illegible laboratory condition of sample receipt notes recorded on the COC. COC date and time entries are switched but no action is taken other than to note this.

### **Sample Collection and Preservation**

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation less than 6°C. Samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

### **Holding Times**

*USEPA Method 8260C:*

All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved waters from the date of collection. All holding time criteria are met.

*USEPA Method TO-15:*

The analyses for VOCs by Method TO-15 were performed within the 30-day recommended holding time limit for the air samples collected in Summa canisters. All holding time criteria are met.

*NWTPH-Gx Method:*

All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria are met.

*Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:*

All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria are met.

*USEPA Method 6020A:*

All samples were analyzed within the USEPA recommended holding time for arsenic of 180 days for preserved waters from the date of sample collection. All holding time criteria are met.

*General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):*

All samples were analyzed within the USEPA recommended holding time for alkalinity (14 days), chloride (28 days), sulfate (28 days), and nitrate (48 hours), and TOC (28 days) for preserved waters from the date of sample collection. All holding time criteria are met.

### **Initial and Continuing Calibration**

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

- SDGs L1091511 and L1091936 - *USEPA Method 8260C*: Continuing calibration verification (CCV) issues are noted by Pace for acetone, bromomethane, chloroethane, trichlorofluoromethane, vinyl acetate, and vinyl chloride associated with analytical batch WG1271083 (analyzed on April 24, 2019). Associated sample results for these compounds are qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **All associated sample results for these compounds are estimated and qualified (U/J).**
- SDG L1092400 - *USEPA Method 8260C*: CCV issues are noted by Pace for acetone, bromomethane, chloroethane, trichlorofluoromethane, and vinyl chloride associated with analytical batch WG1271083 (analyzed on April 25, 2019). Associated sample results for these compounds are qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **All associated sample results for these compounds are estimated and qualified (U/J).**

- SDGs L1092440 and L1092880 - *USEPA Method 8260C*: CCV issues are noted by Pace for acetone, bromomethane, chloroethane, trichlorofluoromethane, and vinyl chloride associated with analytical batch WG1272563 (analyzed on April 26, 2019). Associated sample results for these compounds are qualified by the laboratory “J0” to indicate that percent difference CCV is outside of laboratory acceptance criteria. **All associated sample results for these compounds are estimated and qualified (U/J).**
- SDGs L1091936 and L1091958 - *USEPA Method 8260C*: CCV issues are noted by Pace for acetone, bromomethane, chloroethane, trichlorofluoromethane, and vinyl chloride associated with analytical batch WG1271705 (analyzed on April 25, 2019). Associated sample results for these compounds are qualified by the laboratory “J0” to indicate that percent difference CCV is outside of laboratory acceptance criteria. **All associated sample results for these compounds are estimated and qualified (U/J).**
- SDG L1094387 - *USEPA Method 8260C*: CCV issues are noted by Pace for chloroethane, chloromethane, naphthalene, trichlorofluoromethane, vinyl acetate, and vinyl chloride associated with analytical batch WG1275813 (analyzed on May 3, 2019). Associated sample results for these compounds are qualified by the laboratory “J0” to indicate that percent difference CCV is outside of laboratory acceptance criteria. **All associated sample results for these compounds are estimated and qualified (U/J).**
- SDG L1094414 - *USEPA Method 8260C*: CCV issues are noted by Pace for acetone, bromomethane, chloroethane, trichlorofluoromethane, and vinyl chloride associated with analytical batch WG1275905 (analyzed on May 3, 2019). Associated sample results for these compounds are qualified by the laboratory “J0” to indicate that percent difference CCV is outside of laboratory acceptance criteria. **All associated sample results for these compounds are estimated and qualified (U/J).**

## **Method Blank Results**

### *USEPA Method 8260C:*

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDGs L1091511 and L1091936 - Analytical batch WG1271083: A low level of hexachloro-1,3-butadiene is detected in the method blank. No action was necessary since hexachloro-1,3-butadiene is not detected in the associated samples.
- SDGs L1092400, L1091936, and L1091958 - Analytical batch WG1271705: A low level of hexachloro-1,3-butadiene is detected in the method blank. No action was necessary since hexachloro-1,3-butadiene is not detected in the associated samples.

- SDG L1093242 - Analytical batch WG1272804: A low level of hexachloro-1,3-butadiene is detected in the method blank. No action was necessary since hexachloro-1,3-butadiene is not detected in the associated samples.
- SDG L1094414 - Analytical batch WG1275905: A low level of acetone is detected in the method blank. Low levels of acetone are also detected in the Trip Blank and associated equipment blank. **Acetone detections in samples MW102-050119 and MW160-050119 are detected below the RDL are qualified (U) as non-detects due to trip, equipment, and/or method blank contamination.**
- SDG L1094387 - Analytical batch WG1275813: Low levels of carbon disulfide, hexachloro-1,3-butadiene, and 1,2,3-trichlorobenzene are detected in the method blank. No action was necessary since these compounds are not detected in the associated samples.

*USEPA Method TO-15:*

A laboratory method blank is included with the analytical batch per method requirement. The target analytes were not detected in the method blank at or above the RDLs.

*NWTPH-Gx Method:*

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

- SDG L1095349 - Analytical batch WG1277188: Gasoline is detected at a low level (below the RDL) in the method blank. No action is taken since gasoline is detected but not detected below the RDLs in associated samples.

*Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:*

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (dissolved gases) are not detected in the method blanks at or above the RDLs.

*USEPA Method 6020A and General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):*

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were detected in the method blanks below the RDLs. Per Guidance, no action is taken for blank detections less than the RDL when associated sample detections are greater than the RDL.

| SDG      | Batch     | Method  | Analyte                                 | Result | Qualifier | MRL   | Units | Associated Result(s) Qualified |
|----------|-----------|---------|---|--------|-----------|-------|-------|--------------------------------|
| L1091511 | WG1273424 | SM2320B | Alkalinity as CaCO <sub>3</sub> , Total | 3140   | J         | 20000 | ug/L  | NO                             |
| L1091511 | WG1270623 | 9060A   | TOC                                     | 258    | J         | 1000  | ug/L  | NO                             |
| L1091936 | WG1273424 | SM2320B | Alkalinity as CaCO <sub>3</sub> , Total | 3140   | J         | 20000 | ug/L  | NO                             |
| L1091936 | WG1271082 | 9056A   | Nitrate                                 | 26.3   | J         | 100   | ug/L  | NO                             |
| L1091936 | WG1271094 | 9060A   | TOC                                     | 229    | J         | 1000  | ug/L  | NO                             |
| L1091958 | WG1273427 | SM2320B | Alkalinity as CaCO <sub>3</sub> , Total | 3360   | J         | 20000 | ug/L  | NO                             |

|          |           |         |                            |      |   |       |      |    |
|----------|-----------|---------|----------------------------|------|---|-------|------|----|
| L1091958 | WG1271082 | 9056A   | Nitrate                    | 26.3 | J | 100   | ug/L | NO |
| L1091958 | WG1271096 | 9060A   | TOC                        | 485  | J | 1000  | ug/L | NO |
| L1092400 | WG1273429 | SM2320B | Alkalinity as CaCO3, Total | 3160 | J | 20000 | ug/L | NO |
| L1092400 | WG1272243 | 9060A   | TOC                        | 568  | J | 1000  | ug/L | NO |
| L1092440 | WG1271844 | 6020B   | Iron                       | 87.3 | J | 100   | ug/L | NO |
| L1092440 | WG1271844 | 6020B   | Manganese                  | 1.84 | J | 5.00  | ug/L | NO |
| L1092880 | WG1274856 | SM2320B | Alkalinity as CaCO3, Total | 3100 | J | 20000 | ug/L | NO |
| L1092880 | WG1271844 | 6020B   | Iron                       | 87.3 | J | 100   | ug/L | NO |
| L1092880 | WG1271844 | 6020B   | Manganese                  | 1.84 | J | 5.00  | ug/L | NO |
| L1092880 | WG1273394 | 9060A   | TOC                        | 284  | J | 1000  | ug/L | NO |
| L1093242 | WG1275809 | SM2320B | Alkalinity as CaCO3, Total | 3110 | J | 20000 | ug/L | NO |
| L1093242 | WG1273394 | 9060A   | TOC                        | 284  | J | 1000  | ug/L | NO |
| L1093242 | WG1271844 | 6020B   | Iron                       | 87.3 | J | 100   | ug/L | NO |
| L1093242 | WG1271844 | 6020B   | Manganese                  | 1.84 | J | 5.00  | ug/L | NO |
| L1094387 | WG1276578 | SM2320B | Alkalinity as CaCO3, Total | 5510 | J | 20000 | ug/L | NO |
| L1094387 | WG1276578 | 9060A   | TOC                        | 198  | J | 1000  | ug/L | NO |
| L1094414 | WG1276579 | SM2320B | Alkalinity as CaCO3, Total | 3670 | J | 20000 | ug/L | NO |
| L1094414 | WG1275310 | 9060A   | TOC                        | 205  | J | 1000  | ug/L | NO |
| L1095349 | WG1278682 | SM2320B | Alkalinity as CaCO3, Total | 3040 | J | 20000 | ug/L | NO |
| L1095349 | WG1276616 | 9060A   | TOC                        | 349  | J | 1000  | ug/L | NO |

### Trip Blank Results

#### *USEPA Method 8260C and NWTPH-Gx:*

Ten trip blanks were collected and submitted for analysis. The target analytes were not detected in the trip blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1092400 - Analytical batch WG1271705: A low level of acetone is detected (below the RDL) in the trip blank. **Associated low level acetone detections, below the RDL, in samples MW-153-042419, MW-909-042419, MW-146-042419, and MW-154-042419 are qualified as not detected (U).**
- SDG L1092440 - Analytical batch WG1272563: A low level of acetone is detected (below the RDL) in the trip blank. **Associated low level acetone detections, below the RDL, in samples MW-125-042319, MW-143-042419, MW-908-042419, MW-142-042419, MW-156-042419, and MW-157-042419 are qualified as not detected (U).**
- SDG L1092880 - Analytical batch WG1272563: A low level of acetone is detected (below the RDL) in the trip blank. **Associated low level acetone detections, below the RDL, in samples MW-158-042519, W-MW-01-042519, and R-MW6-042519 are qualified as not detected (U).**
- SDG L1093242 - Analytical batch WG1272804: A low level of acetone is detected (below the RDL) in the trip blank. **Associated low level acetone detections, below the RDL, in samples MW106-042619, MW145-042619, MW-910-042619, and MW-178-042619 are qualified as not detected (U).**

- SDG L1094387 - Analytical batch WG1275813: A low level of acetone is detected (below the RDL) in the trip blank. **Associated low level acetone detections, below the RDL, are detected in all samples and are qualified as not detected (U).**
- SDG L1094414 - Analytical batch WG1277193: A low level of acetone is detected (below the RDL) in the trip blank. **Associated low level acetone detections, below the RDL, in samples MW102-050119 and MW160-050119 are qualified as not detected (U) due to trip, equipment, and/or method blank contamination.**

### **Field, Rinsate, or Equipment Blank Results**

#### *All Analytical Methods:*

One equipment blank (EQ-050119) was collected and analyzed for VOCs, gasoline, dissolved gases (methane, ethane, and ethene), wet chemistry parameters (alkalinity, chloride, nitrate, sulfate, and TOC), and metals (iron and manganese). Review of the equipment blank results are as follows:

- SDG L1094414: An equipment blank sample (EQ-050119) was collected on May 1, 2019 from the bladder pump associated with samples MW102-050119 and MW160-050119. The target analytes were not detected in the equipment blank at or above the RDLs with the following exceptions:
  - Low levels of acetone, bromodichloromethane, chlorodibromomethane, and chloroform (below the RDL) are detected in the equipment blank. No action was needed for chloroform as it was not detected in the associated samples. **Sample MW102-050119 and MW160-050119 acetone detections are less than the RDL and are qualified (U) as not detected due to equipment, trip and/or method blank contamination.** Low levels of alkalinity, chloride, TOC, iron, and manganese were also detected in the equipment blank. No action was taken on this basis since associated detections in samples MW102-050119 and MW160-050119 are either above the RDL or are not detected.

### **Field Duplicate Analyses**

Field duplicate pairs were submitted and analyzed. Field duplicate sample pair is as follows:

- SDG L1092400: Samples MW153-042419 and MW909-042419
- SDG L1092440: Samples MW156-042419 and MW908-042419
- SDG L1093242: Samples MW159-042619 and MW910-042619
- SDG L1095349: Samples MW120-050319 and MW911-050319
- SDG L1095166: Samples SV01-042919 and SV01-042919-D

Target analyte results are comparable and within a relative percent difference (RPD) of 30% for the field duplicate pair with the following exceptions:

- SDG L1092400: Samples MW153-042419 and MW909-042419: Iron and vinyl chloride results are not comparable with RPDs greater than 30% (for results < 5X RDL the absolute difference < 1X RDL). **Field duplicate results for iron and vinyl chloride are estimated and qualified (J).**
- SDG L1092440: Samples MW156-042419 and MW908-042419: Nitrate results are not comparable with RPDs greater than 30% (for results < 5X RDL the absolute difference < 1X RDL). **Field duplicate results for nitrate are estimated and qualified (J).**
- SDG L1095349: Samples MW120-050319 and MW911-050319: Iron and methane results are not comparable with RPDs greater than 30% (for results < 5X RDL the absolute difference < 1X RDL). **Field duplicate results for iron and methane are estimated and qualified (J).**

### **Laboratory Duplicate Analyses**

#### *USEPA Method 8260C:*

Laboratory duplicate samples were not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

#### *NWTPH-Gx Method:*

A laboratory duplicate sample was not analyzed. Refer to LCS/LCSD or MS/MSDs results for precision data.

#### *Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:*

Laboratory duplicate sample analyses were performed on client and non-client samples within the analytical batches. The primary/duplicate RPDs for dissolved gas analyses are within the laboratory control limit of 20%.

#### *USEPA Method 6020A:*

A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

#### *General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):*

A laboratory duplicate sample was performed on client samples and on non-client samples. The primary/duplicate RPDs for general chemistry parameters are within the laboratory control limits with the following discussions:

- SDG L1092440: Non client sample alkalinity RPD result exceeds 20%. No action is taken since the duplicate was performed on a non-client sample refer to field duplicate results for precision data.
- SDGs L1094414 and L1094387: A laboratory duplicate was performed on the equipment blank (EQ-050119) with a low-level chloride RPD result greater than laboratory QC

criteria of 15%. No action is taken since the results are less than the RDL and the duplicate was performed on the equipment blank.

### Surrogate Recoveries

#### *USEPA Method 8260C:*

The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blanks, equipment blank, and the method blanks are within the laboratory surrogate control limits for all the analyses.

#### *USEPA Method TO-15:*

The surrogate recovery results for the samples, laboratory control samples, and the method blanks are within the laboratory surrogate control limits for all the analyses.

#### *NWTPH-Gx Method:*

The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blanks, equipment blank, and the method blanks are within the laboratory surrogate control limits for all analyses.

### Laboratory Control Samples

#### *USEPA Method 8260C:*

Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) were analyzed by USEPA Method 8260C method. The LCS % Rs or LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for waters with the following discussions and exceptions:

- SDG L1092400 - Analytical batch WG1271705: LCSD recovery for acetone is above control limit criteria and laboratory qualified (J4). LCS/LCSD recoveries for acetone are wide and the RPD is above control limit criteria and laboratory qualified (J3). No action was taken on this basis since acetone was detected at a low level in the trip blank (Trip Blank). For further discussion refer to the Trip Blank Results section for details.
- SDGs L1091936 and L1091958 - Analytical batch WG1271705: LCSD recovery for acetone is above control limit criteria and laboratory qualified (J4). LCS/LCSD recoveries for acetone are wide and the RPD is above control limit criteria and laboratory qualified (J3). **Associated acetone results are already estimated and qualified (J) due to calibration issues.** Refer to the Initial and Continuing Calibration section for additional details.
- SDGs L1092440 and L1092880 - Analytical batch WG1272563: LCS/LCSD recoveries for 2-hexanone are within but are recovered wide, the RPD is above control limit criteria, and results are laboratory qualified (J3). No action is taken other than to note this.
- SDG L1092400 - Analytical batch WG1274056. No LCSD was analyzed for cis-1,2-dichloroethene. Refer to field duplicate results for precision data.



- SDG L1092400 - Analytical batch WG1274056. No LCSD was analyzed for cis-1,2-dichloroethene. Refer to field duplicate results for precision data.
- SDG L1094387 - Analytical batch WG1275813. LCSD recovery for acetone is above control limit criteria and laboratory qualified (J4). No action is taken on this basis since associated acetone results are qualified (U) as not detected due to trip blank contamination. For further discussion refer to the section on Trip Blank Results. LCS/LCSD recoveries for vinyl chloride are below control limit criteria and laboratory qualified (J4). **All associated vinyl chloride results are estimated and qualified (J/UJ) due to low LCS/LCSD recoveries.**
- SDG L1095349 - Analytical batch WG1277852. No LCSD was analyzed for VOCs. Refer to field duplicate results for precision data.

*USEPA Method TO-15:*

Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) were analyzed for the VOCs by TO-15 along with each analytical batch. LCS/LCSD %Rs and relative percent differences (RPDs) are within QC criteria.

*NWTPH-Gx Method:*

The LCS or LCS/LCSD %Rs and RPDs for the target compound (gasoline) are within the laboratory control criteria for waters with the following discussions:

- SDG L1092400 - Analytical batch WG1272107. No LCSD was analyzed. Refer to field duplicate results for precision data.

*Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:*

The LCS/LCSD %Rs and RPDs for the target compound (dissolved gases) are within the laboratory control criteria for waters.

*USEPA Method 6020A:*

The LCS/LCSD %Rs and RPDs for the target compound (iron and manganese) are within the laboratory control criteria for waters.

*General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):*

The LCS or LCS/LCSD %Rs and RPDs for general chemistry parameters are within the laboratory control criteria for waters.

**Matrix Spike/Matrix Spike Duplicates**

*USEPA Method 8260C:*

Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD and/or field duplicate data for accuracy and precision data.

*USEPA Method TO-15:*

Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD and/or field duplicate data for accuracy and precision data.

*NWTPH-Gx Method:*

MS/MSD analyses were performed on client or non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD for accuracy and precision data. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for waters.

*Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:*

Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD or laboratory duplicate data for accuracy and precision data.

*USEPA Method 6020A:*

MS/MSD analyses were performed on client and non-client samples within the analytical batches. The MS/MSD % Rs and RPD were acceptable and within laboratory control limit criteria for water samples with the following exceptions:

- SDG L1092400 - Analytical batch WG1271843: MS/MSDs were performed on non-client samples. The sample amount is greater than the spike amount and MS/MSD results are qualified (V) by the laboratory. No action was taken other than to note that the spike was performed on a non-client sample and LCS/LCSD results are within criteria.
- SDGs L1092440 and L1092880 - Analytical batch WG1271844: MS/MSDs were performed on client sample MW-158-042419 (SDG L1092880). The sample amount for iron is greater than the spike amount and MS/MSD results are qualified (V) by the laboratory. No action was taken other than to note that the spike was performed on a non-client sample and LCS/LCSD results are within criteria.
- SDGs L1094387 and L1094414 - Analytical batch WG1275858: MS/MSDs were performed on non-client sample. The sample amount for iron is greater than the spike amount and MS/MSD results are qualified (V) by the laboratory. No action was taken other than to note that the spike was performed on a non-client sample and LCS/LCSD results are within criteria.

*General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):*

MS/MSD analyses were performed on client and/or non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD or laboratory duplicate data for accuracy and precision data. The MS/MSD % Rs and RPDs are acceptable and within laboratory control limit criteria for water samples with the following exception:

- SDG L1092440 - Analytical batch WG1271815: The MS was performed on client sample MW-157-042419. MS results for sulfate are qualified (E) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range. No action was taken other than to note that the laboratory duplicate and LCS recovery results are

within criteria. Sample MW157-042419 sulfate concentration is within the calibration range.

**Other Quality Control Issues**

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

- SDG L1095349: A serial dilution was performed on field duplicate sample MW911-050319. Serial dilution criteria were not met (laboratory qualified O1) for iron. **Sample MW911-050319 and field duplicate sample MW120-050319 iron results are estimated and qualified (J) due to the high serial dilution result.** Refer to the Field Duplicate section for additional information on this field duplicate pair.
- SDG L1095349: A serial dilution was performed on field duplicate sample MW911-050319 (field duplicate sample MW120-050319). Serial dilution criteria were not met (laboratory qualified O1) for manganese at the 5X dilution. For sample MW911-050319 Pace reported two sets of results (10X and 5X) for manganese. **Sample MW911-050319 manganese result at the 5X dilution, while acceptable as estimated is rejected (R) because sample MW911-050319 manganese at the higher dilution (10X) has the higher concentration result and is reported as this result is the most conservative.** Field duplicate sample RPD results are less than 30% RPD.
- Electronic data deliverables (EDDs) for these SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy however associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

**Compound Identification and Quantitation Limits**

Several chlorinated VOC compounds (including cis-1,2-dichloroethene, trans-1,2-dichloroethene, trichloroethene, and tetrachloroethene) elute within the GRO retention time range. Elevated chlorinated VOC compounds likely contribute to the GRO result and associated GRO results are likely biased high (J+). Qualified samples are as follows:

| Sample ID      | Laboratory Identification | Result Parameter Name   | Result Value (µg/L) | Qualified Result | Comments   |
|----------------|---------------------------|-------------------------|---------------------|------------------|--|
| MW104-042319   | L1091936-03               | Gasoline Range Organics | 174                 | J+               | Elevated chlorinated VOCs within the GRO elution range |
| MW147-042319   | L1091936-05               | Gasoline Range Organics | 139                 | J+               | Elevated chlorinated VOCs within the GRO elution range |
| W-MW-02-042319 | L1091958-01               | Gasoline Range Organics | 429                 | J+               | Elevated chlorinated VOCs within the GRO elution range |
| MW-908-042419  | L1092440-03               | Gasoline Range Organics | 2600                | J+               | Elevated chlorinated VOCs within the GRO elution range |
| MW-156-042419  | L1092440-05               | Gasoline Range Organics | 2570                | J+               | Elevated chlorinated VOCs within the GRO elution range |
| MW-157-042419  | L1092440-06               | Gasoline Range Organics | 3210                | J+               | Elevated chlorinated VOCs within the GRO elution range |

|              |             |                         |     |    |  |
|--------------|-------------|-------------------------|-----|----|--|
| MW-9-042619  | L1093242-08 | Gasoline Range Organics | 121 | J+ | Elevated chlorinated VOCs within the GRO elution range |
| MW107-050119 | L1094387-09 | Gasoline Range Organics | 481 | J+ | Elevated chlorinated VOCs within the GRO elution range |
| MW120-050319 | L1095349-01 | Gasoline Range Organics | 111 | J+ | Elevated chlorinated VOCs within the GRO elution range |
| MW911-050319 | L1095349-02 | Gasoline Range Organics | 138 | J+ | Elevated chlorinated VOCs within the GRO elution range |

Results of the analyses were reported based on laboratory RDLs for all compounds. RDLs for selected compounds are elevated due to method-required dilutions. No action is taken other than to note that Pace sample narrative notes indicate that VOC target compounds were too high to run at lower dilution for two samples as follows:

- MW-157-042419 (SDG L1092440); and
- FMW-129-050119 (SDG L1094387).

### **Data Assessment**

The laboratory data reported for this project were reviewed based on the criteria outlined in:

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

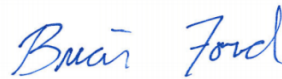
Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use with the following exception:

- **SDG L1095349: Sample MW911-050319 manganese result at the 5X dilution, while acceptable as estimated is rejected (R) because sample MW911-050319 manganese at the higher dilution (10X) has the higher concentration result and is reported as the result is the most conservative.**

## PES Environmental, Inc.- WA

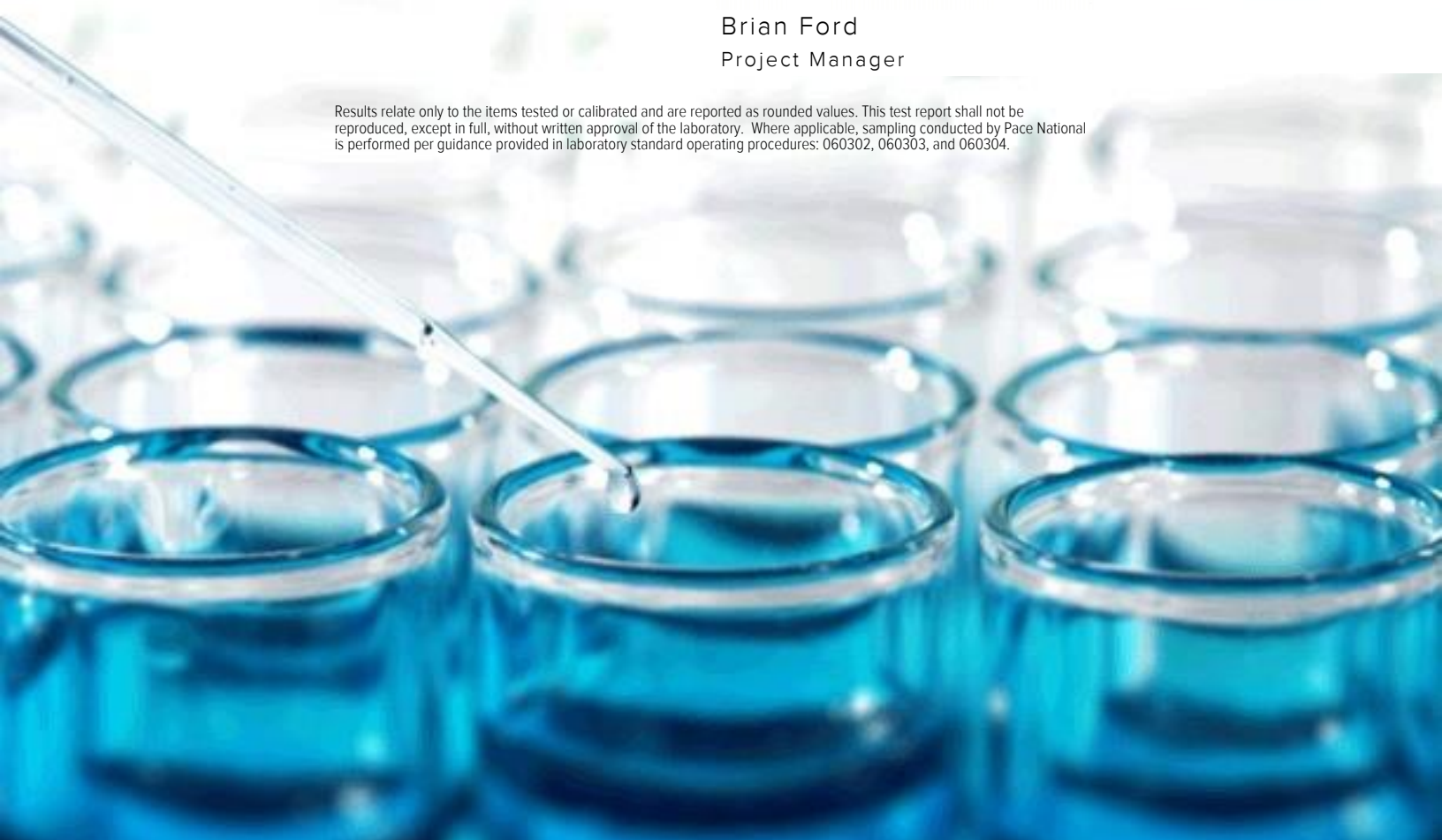
Sample Delivery Group: L1091511  
Samples Received: 04/23/2019  
Project Number: 1413.001.05.601  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

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.





|  |           |             |
|--|-----------|-------------|
| <b>Cp: Cover Page</b>                              | <b>1</b>  | <b>1</b> Cp |
| <b>Tc: Table of Contents</b>                       | <b>2</b>  | <b>2</b> Tc |
| <b>Ss: Sample Summary</b>                          | <b>3</b>  | <b>3</b> Ss |
| <b>Cn: Case Narrative</b>                          | <b>5</b>  | <b>4</b> Cn |
| <b>Sr: Sample Results</b>                          | <b>6</b>  | <b>5</b> Sr |
| MW-138-042219 L1091511-01                          | <b>6</b>  | <b>6</b> Qc |
| GEI-1-042219 L1091511-02                           | <b>9</b>  | <b>7</b> Gl |
| GEI-2-042219 L1091511-03                           | <b>11</b> | <b>8</b> Al |
| FMW-131-042219 L1091511-04                         | <b>13</b> | <b>9</b> Sc |
| MW112-042219 L1091511-05                           | <b>15</b> |             |
| TRIP BLANK-042219 L1091511-06                      | <b>18</b> |             |
| R-MW5-042219 L1091511-07                           | <b>20</b> |             |
| <b>Qc: Quality Control Summary</b>                 | <b>22</b> |             |
| Wet Chemistry by Method 2320 B-2011                | <b>22</b> |             |
| Wet Chemistry by Method 9056A                      | <b>23</b> |             |
| Wet Chemistry by Method 9060A                      | <b>25</b> |             |
| Metals (ICPMS) by Method 6020B                     | <b>26</b> |             |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | <b>27</b> |             |
| Volatile Organic Compounds (GC) by Method RSK175   | <b>28</b> |             |
| Volatile Organic Compounds (GC/MS) by Method 8260C | <b>29</b> |             |
| <b>Gl: Glossary of Terms</b>                       | <b>33</b> |             |
| <b>Al: Accreditations &amp; Locations</b>          | <b>34</b> |             |
| <b>Sc: Sample Chain of Custody</b>                 | <b>35</b> |             |

# SAMPLE SUMMARY

## MW-138-042219 L1091511-01 GW

Collected by Shannon McKernan    Collected date/time 04/22/19 10:30    Received date/time 04/23/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011                | WG1273424 | 1        | 04/29/19 16:02        | 04/29/19 16:02     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1270336 | 1        | 04/23/19 18:05        | 04/23/19 18:05     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                      | WG1270623 | 1        | 04/23/19 22:50        | 04/23/19 22:50     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1271163 | 10       | 04/25/19 08:19        | 05/01/19 19:39     | LD      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1270830 | 1        | 04/24/19 01:20        | 04/24/19 01:20     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1271117 | 1        | 04/24/19 13:51        | 04/24/19 13:51     | MEL     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1271083 | 1        | 04/24/19 12:34        | 04/24/19 12:34     | JCP     | Mt. Juliet, TN |

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## GEI-1-042219 L1091511-02 GW

Collected by Shannon McKernan    Collected date/time 04/22/19 10:40    Received date/time 04/23/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1271083 | 1        | 04/24/19 12:54        | 04/24/19 12:54     | JCP     | Mt. Juliet, TN |

## GEI-2-042219 L1091511-03 GW

Collected by Shannon McKernan    Collected date/time 04/22/19 11:50    Received date/time 04/23/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1271083 | 1        | 04/24/19 13:14        | 04/24/19 13:14     | JCP     | Mt. Juliet, TN |

## FMW-131-042219 L1091511-04 GW

Collected by Shannon McKernan    Collected date/time 04/22/19 12:55    Received date/time 04/23/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1271083 | 1        | 04/24/19 13:34        | 04/24/19 13:34     | JCP     | Mt. Juliet, TN |

## MW112-042219 L1091511-05 GW

Collected by Shannon McKernan    Collected date/time 04/22/19 13:00    Received date/time 04/23/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011                | WG1273424 | 1        | 04/29/19 16:09        | 04/29/19 16:09     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1270336 | 1        | 04/23/19 18:20        | 04/23/19 18:20     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                      | WG1270623 | 1        | 04/23/19 23:04        | 04/23/19 23:04     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1271163 | 1        | 04/25/19 08:19        | 05/01/19 19:22     | LD      | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1271163 | 5        | 04/25/19 08:19        | 05/01/19 19:44     | LD      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1270830 | 1        | 04/24/19 01:44        | 04/24/19 01:44     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1271117 | 1        | 04/24/19 13:53        | 04/24/19 13:53     | MEL     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1271083 | 1        | 04/24/19 13:54        | 04/24/19 13:54     | JCP     | Mt. Juliet, TN |

## TRIP BLANK-042219 L1091511-06 GW

Collected by Shannon McKernan    Collected date/time 04/22/19 00:00    Received date/time 04/23/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1270830 | 1        | 04/23/19 22:57        | 04/23/19 22:57     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1271083 | 1        | 04/24/19 12:14        | 04/24/19 12:14     | JCP     | Mt. Juliet, TN |

# SAMPLE SUMMARY



R-MW5-042219 L1091511-07 GW

Collected by Shannon McKernan  
 Collected date/time 04/22/19 11:30  
 Received date/time 04/23/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1270830 | 1        | 04/24/19 02:08        | 04/24/19 02:08     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1271083 | 1        | 04/24/19 14:14        | 04/24/19 14:14     | JCP     | Mt. Juliet, TN |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> 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

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



Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 139000 |           | 2710 | 20000 | 1        | 04/29/2019 16:02 | <a href="#">WG1273424</a> |

Sample Narrative:

L1091511-01 WG1273424: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 14200  |           | 51.9 | 1000 | 1        | 04/23/2019 18:05 | <a href="#">WG1270336</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/23/2019 18:05 | <a href="#">WG1270336</a> |
| Sulfate  | 42700  |           | 77.4 | 5000 | 1        | 04/23/2019 18:05 | <a href="#">WG1270336</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 5700   |           | 102  | 1000 | 1        | 04/23/2019 22:50 | <a href="#">WG1270623</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Iron      | 13200  |           | 150  | 1000 | 10       | 05/01/2019 19:39 | <a href="#">WG1271163</a> |
| Manganese | 509    |           | 2.50 | 50.0 | 10       | 05/01/2019 19:39 | <a href="#">WG1271163</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 04/24/2019 01:20 | <a href="#">WG1270830</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 110    |           |      | 78.0-120 |          | 04/24/2019 01:20 | <a href="#">WG1270830</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 164    |           | 0.287 | 0.678 | 1        | 04/24/2019 13:51 | <a href="#">WG1271117</a> |
| Ethane  | U      |           | 0.296 | 1.29  | 1        | 04/24/2019 13:51 | <a href="#">WG1271117</a> |
| Ethene  | 1.43   |           | 0.422 | 1.27  | 1        | 04/24/2019 13:51 | <a href="#">WG1271117</a> |

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

| Analyte              | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch                     |
|----------------------|--------|-----------|--------|-------|----------|------------------|---------------------------|
|                      | ug/l   |           | ug/l   | ug/l  |          | date / time      |                           |
| Acetone              | 2.56   | J JO      | 1.05   | 25.0  | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Benzene              | U      |           | 0.0896 | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Bromomethane         | U      | JO        | 0.157  | 2.50  | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Carbon disulfide     | 0.405  | J         | 0.101  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/22/19 10:30

L1091511

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

| Analyte                        | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch                     |
|--------------------------------|--------|-----------|--------|-------|----------|------------------|---------------------------|
|                                | ug/l   |           | ug/l   | ug/l  |          | date / time      |                           |
| Chlorobenzene                  | U      |           | 0.140  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Chlorodibromomethane           | U      |           | 0.128  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Chloroethane                   | U      | <u>JO</u> | 0.141  | 2.50  | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Chloroform                     | U      |           | 0.0860 | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Chloromethane                  | U      |           | 0.153  | 1.25  | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 2-Chlorotoluene                | U      |           | 0.111  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 4-Chlorotoluene                | U      |           | 0.0972 | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 1,2-Dibromo-3-Chloropropane    | U      |           | 0.325  | 2.50  | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 1,2-Dibromoethane              | U      |           | 0.193  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Dibromomethane                 | U      |           | 0.117  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 1,2-Dichlorobenzene            | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 1,3-Dichlorobenzene            | U      |           | 0.130  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 1,4-Dichlorobenzene            | U      |           | 0.121  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Dichlorodifluoromethane        | U      |           | 0.127  | 2.50  | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 1,1-Dichloroethane             | U      |           | 0.114  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 1,2-Dichloroethane             | U      |           | 0.108  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 1,1-Dichloroethene             | U      |           | 0.188  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| cis-1,2-Dichloroethene         | U      |           | 0.0933 | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| trans-1,2-Dichloroethene       | U      |           | 0.152  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 1,2-Dichloropropane            | U      |           | 0.190  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 1,1-Dichloropropene            | U      |           | 0.128  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 1,3-Dichloropropane            | U      |           | 0.147  | 1.00  | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| cis-1,3-Dichloropropene        | U      |           | 0.0976 | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| trans-1,3-Dichloropropene      | U      |           | 0.222  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| trans-1,4-Dichloro-2-butene    | U      |           | 0.257  | 5.00  | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 2,2-Dichloropropane            | U      |           | 0.0929 | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Di-isopropyl ether             | U      |           | 0.0924 | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Ethylbenzene                   | U      |           | 0.158  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Hexachloro-1,3-butadiene       | U      |           | 0.157  | 1.00  | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 2-Hexanone                     | U      |           | 0.757  | 5.00  | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| n-Hexane                       | U      |           | 0.305  | 5.00  | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Iodomethane                    | U      |           | 0.377  | 10.0  | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Isopropylbenzene               | U      |           | 0.126  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| p-Isopropyltoluene             | U      |           | 0.138  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 2-Butanone (MEK)               | U      |           | 1.28   | 5.00  | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Methylene Chloride             | U      |           | 1.07   | 2.50  | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 4-Methyl-2-pentanone (MIBK)    | U      |           | 0.823  | 5.00  | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Methyl tert-butyl ether        | U      |           | 0.102  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Naphthalene                    | U      |           | 0.174  | 2.50  | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| n-Propylbenzene                | U      |           | 0.162  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Styrene                        | U      |           | 0.117  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 1,1,1,2-Tetrachloroethane      | U      |           | 0.120  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 1,1,2,2-Tetrachloroethane      | U      |           | 0.130  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 1,1,2-Trichlorotrifluoroethane | U      |           | 0.164  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Tetrachloroethene              | U      |           | 0.199  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Toluene                        | U      |           | 0.412  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 1,2,3-Trichlorobenzene         | U      |           | 0.164  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 1,2,4-Trichlorobenzene         | U      |           | 0.355  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 1,1,1-Trichloroethane          | U      |           | 0.0940 | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 1,1,2-Trichloroethane          | U      |           | 0.186  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Trichloroethene                | U      |           | 0.153  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| Trichlorofluoromethane         | U      | <u>JO</u> | 0.130  | 2.50  | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 1,2,3-Trichloropropane         | U      |           | 0.247  | 2.50  | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 1,2,4-Trimethylbenzene         | U      |           | 0.123  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 1,2,3-Trimethylbenzene         | U      |           | 0.0739 | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |
| 1,3,5-Trimethylbenzene         | U      |           | 0.124  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              | <u>JO</u> | 0.645       | 5.00        | 1        | 04/24/2019 12:34        | <a href="#">WG1271083</a> |
| Vinyl chloride            | U              | <u>JO</u> | 0.118       | 0.500       | 1        | 04/24/2019 12:34        | <a href="#">WG1271083</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/24/2019 12:34        | <a href="#">WG1271083</a> |
| (S) Toluene-d8            | 101            |           |             | 80.0-120    |          | 04/24/2019 12:34        | <a href="#">WG1271083</a> |
| (S) 4-Bromofluorobenzene  | 106            |           |             | 77.0-126    |          | 04/24/2019 12:34        | <a href="#">WG1271083</a> |
| (S) 1,2-Dichloroethane-d4 | 91.9           |           |             | 70.0-130    |          | 04/24/2019 12:34        | <a href="#">WG1271083</a> |

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                     | 1.91   | J JO      | 1.05   | 25.0  | 1        | 04/24/2019 12:54 | WG1271083 |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 04/24/2019 12:54 | WG1271083 |
| Benzene                     | U      |           | 0.0896 | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| Bromomethane                | U      | JO        | 0.157  | 2.50  | 1        | 04/24/2019 12:54 | WG1271083 |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| Chloroethane                | U      | JO        | 0.141  | 2.50  | 1        | 04/24/2019 12:54 | WG1271083 |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| Chloromethane               | U      |           | 0.153  | 1.25  | 1        | 04/24/2019 12:54 | WG1271083 |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 04/24/2019 12:54 | WG1271083 |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 04/24/2019 12:54 | WG1271083 |
| 1,1-Dichloroethane          | U      |           | 0.114  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| 1,1-Dichloroethene          | U      |           | 0.188  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| cis-1,2-Dichloroethene      | U      |           | 0.0933 | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| trans-1,2-Dichloroethene    | U      |           | 0.152  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 04/24/2019 12:54 | WG1271083 |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 04/24/2019 12:54 | WG1271083 |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| Di-isopropyl ether          | U      |           | 0.0924 | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 04/24/2019 12:54 | WG1271083 |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 04/24/2019 12:54 | WG1271083 |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 04/24/2019 12:54 | WG1271083 |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 04/24/2019 12:54 | WG1271083 |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 04/24/2019 12:54 | WG1271083 |
| Methylene Chloride          | U      |           | 1.07   | 2.50  | 1        | 04/24/2019 12:54 | WG1271083 |
| 4-Methyl-2-pentanone (MIBK) | U      |           | 0.823  | 5.00  | 1        | 04/24/2019 12:54 | WG1271083 |
| Methyl tert-butyl ether     | U      |           | 0.102  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| Naphthalene                 | 0.282  | J         | 0.174  | 2.50  | 1        | 04/24/2019 12:54 | WG1271083 |
| n-Propylbenzene             | U      |           | 0.162  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| Styrene                     | U      |           | 0.117  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| 1,1,1,2-Tetrachloroethane   | U      |           | 0.120  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |
| 1,1,2,2-Tetrachloroethane   | U      |           | 0.130  | 0.500 | 1        | 04/24/2019 12:54 | WG1271083 |

- 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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| Vinyl acetate                  | U              | <u>JO</u> | 0.645       | 5.00        | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| Vinyl chloride                 | U              | <u>JO</u> | 0.118       | 0.500       | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| (S) Toluene-d8                 | 97.2           |           |             | 80.0-120    |          | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| (S) 4-Bromofluorobenzene       | 104            |           |             | 77.0-126    |          | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| (S) 1,2-Dichloroethane-d4      | 93.4           |           |             | 70.0-130    |          | 04/24/2019 12:54        | <a href="#">WG1271083</a> |

- 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        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Benzene                     | 1.05   |           | 0.0896 | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Bromomethane                | U      | <u>JO</u> | 0.157  | 2.50  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Chloroethane                | U      | <u>JO</u> | 0.141  | 2.50  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Chloromethane               | U      |           | 0.153  | 1.25  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,1-Dichloroethane          | U      |           | 0.114  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,1-Dichloroethene          | U      |           | 0.188  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| cis-1,2-Dichloroethene      | 11.5   |           | 0.0933 | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| trans-1,2-Dichloroethene    | U      |           | 0.152  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Di-isopropyl ether          | 0.217  | <u>J</u>  | 0.0924 | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Methylene Chloride          | U      |           | 1.07   | 2.50  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 4-Methyl-2-pentanone (MIBK) | U      |           | 0.823  | 5.00  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Methyl tert-butyl ether     | 0.154  | <u>J</u>  | 0.102  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Naphthalene                 | U      |           | 0.174  | 2.50  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| n-Propylbenzene             | U      |           | 0.162  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Styrene                     | U      |           | 0.117  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,1,1,2-Tetrachloroethane   | U      |           | 0.120  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,1,2,2-Tetrachloroethane   | U      |           | 0.130  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| Vinyl acetate                  | U              | <u>JO</u> | 0.645       | 5.00        | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| Vinyl chloride                 | 57.7           | <u>JO</u> | 0.118       | 0.500       | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| (S) Toluene-d8                 | 99.6           |           |             | 80.0-120    |          | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| (S) 4-Bromofluorobenzene       | 105            |           |             | 77.0-126    |          | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| (S) 1,2-Dichloroethane-d4      | 94.4           |           |             | 70.0-130    |          | 04/24/2019 13:14        | <a href="#">WG1271083</a> |

- 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                     | 1.80   | J JO      | 1.05   | 25.0  | 1        | 04/24/2019 13:34 | WG1271083 |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 04/24/2019 13:34 | WG1271083 |
| Benzene                     | U      |           | 0.0896 | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Bromomethane                | U      | JO        | 0.157  | 2.50  | 1        | 04/24/2019 13:34 | WG1271083 |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Chloroethane                | U      | JO        | 0.141  | 2.50  | 1        | 04/24/2019 13:34 | WG1271083 |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Chloromethane               | U      |           | 0.153  | 1.25  | 1        | 04/24/2019 13:34 | WG1271083 |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,1-Dichloroethane          | U      |           | 0.114  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,1-Dichloroethene          | U      |           | 0.188  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| cis-1,2-Dichloroethene      | 10.8   |           | 0.0933 | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| trans-1,2-Dichloroethene    | U      |           | 0.152  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 04/24/2019 13:34 | WG1271083 |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 04/24/2019 13:34 | WG1271083 |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Di-isopropyl ether          | U      |           | 0.0924 | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 04/24/2019 13:34 | WG1271083 |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 04/24/2019 13:34 | WG1271083 |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 04/24/2019 13:34 | WG1271083 |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 04/24/2019 13:34 | WG1271083 |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 04/24/2019 13:34 | WG1271083 |
| Methylene Chloride          | U      |           | 1.07   | 2.50  | 1        | 04/24/2019 13:34 | WG1271083 |
| 4-Methyl-2-pentanone (MIBK) | U      |           | 0.823  | 5.00  | 1        | 04/24/2019 13:34 | WG1271083 |
| Methyl tert-butyl ether     | U      |           | 0.102  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Naphthalene                 | U      |           | 0.174  | 2.50  | 1        | 04/24/2019 13:34 | WG1271083 |
| n-Propylbenzene             | U      |           | 0.162  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Styrene                     | U      |           | 0.117  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,1,1,2-Tetrachloroethane   | U      |           | 0.120  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,1,2,2-Tetrachloroethane   | U      |           | 0.130  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |

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<br>ug/l | Qualifier  | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|------------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,1,2-Trichlorotrifluoroethane | U              |            | 0.164       | 0.500       | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| Tetrachloroethene              | U              |            | 0.199       | 0.500       | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| Toluene                        | U              |            | 0.412       | 0.500       | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| 1,2,3-Trichlorobenzene         | U              |            | 0.164       | 0.500       | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| 1,2,4-Trichlorobenzene         | U              |            | 0.355       | 0.500       | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| 1,1,1-Trichloroethane          | U              |            | 0.0940      | 0.500       | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| 1,1,2-Trichloroethane          | U              |            | 0.186       | 0.500       | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| Trichloroethene                | U              |            | 0.153       | 0.500       | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| Trichlorofluoromethane         | U              | <u>JO</u>  | 0.130       | 2.50        | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| 1,2,3-Trichloropropane         | U              |            | 0.247       | 2.50        | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| 1,2,4-Trimethylbenzene         | U              |            | 0.123       | 0.500       | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| 1,2,3-Trimethylbenzene         | U              |            | 0.0739      | 0.500       | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| 1,3,5-Trimethylbenzene         | U              |            | 0.124       | 0.500       | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| Vinyl acetate                  | U              | <u>JO</u>  | 0.645       | 5.00        | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| Vinyl chloride                 | 0.195          | <u>JJO</u> | 0.118       | 0.500       | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| Xylenes, Total                 | U              |            | 0.316       | 1.50        | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| (S) Toluene-d8                 | 99.2           |            |             | 80.0-120    |          | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| (S) 4-Bromofluorobenzene       | 104            |            |             | 77.0-126    |          | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| (S) 1,2-Dichloroethane-d4      | 92.9           |            |             | 70.0-130    |          | 04/24/2019 13:34        | <a href="#">WG1271083</a> |

- 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 | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 82900  |           | 2710 | 20000 | 1        | 04/29/2019 16:09 | <a href="#">WG1273424</a> |

Sample Narrative:

L1091511-05 WG1273424: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 7090   |           | 51.9 | 1000 | 1        | 04/23/2019 18:20 | <a href="#">WG1270336</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/23/2019 18:20 | <a href="#">WG1270336</a> |
| Sulfate  | 7650   |           | 77.4 | 5000 | 1        | 04/23/2019 18:20 | <a href="#">WG1270336</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 6040   |           | 102  | 1000 | 1        | 04/23/2019 23:04 | <a href="#">WG1270623</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 4900   |           | 75.0  | 500  | 5        | 05/01/2019 19:44 | <a href="#">WG1271163</a> |
| Manganese | 177    |           | 0.250 | 5.00 | 1        | 05/01/2019 19:22 | <a href="#">WG1271163</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 04/24/2019 01:44 | <a href="#">WG1270830</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 110    |           |      | 78.0-120 |          | 04/24/2019 01:44 | <a href="#">WG1270830</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 281    |           | 0.287 | 0.678 | 1        | 04/24/2019 13:53 | <a href="#">WG1271117</a> |
| Ethane  | 1.12   | J         | 0.296 | 1.29  | 1        | 04/24/2019 13:53 | <a href="#">WG1271117</a> |
| Ethene  | 1.13   | J         | 0.422 | 1.27  | 1        | 04/24/2019 13:53 | <a href="#">WG1271117</a> |

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

| Analyte              | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch                     |
|----------------------|--------|-----------|--------|-------|----------|------------------|---------------------------|
|                      | ug/l   |           | ug/l   | ug/l  |          | date / time      |                           |
| Acetone              | 2.37   | J JO      | 1.05   | 25.0  | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |
| Benzene              | U      |           | 0.0896 | 0.500 | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |
| Bromomethane         | U      | JO        | 0.157  | 2.50  | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |
| Carbon disulfide     | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/22/19 13:00

L1091511

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

| Analyte                        | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch     |
|--------------------------------|--------|-----------|--------|-------|----------|------------------|-----------|
|                                | ug/l   |           | ug/l   | ug/l  |          | date / time      |           |
| Chlorobenzene                  | U      |           | 0.140  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Chlorodibromomethane           | U      |           | 0.128  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Chloroethane                   | U      | JO        | 0.141  | 2.50  | 1        | 04/24/2019 13:54 | WG1271083 |
| Chloroform                     | U      |           | 0.0860 | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Chloromethane                  | U      |           | 0.153  | 1.25  | 1        | 04/24/2019 13:54 | WG1271083 |
| 2-Chlorotoluene                | U      |           | 0.111  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 4-Chlorotoluene                | U      |           | 0.0972 | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,2-Dibromo-3-Chloropropane    | U      |           | 0.325  | 2.50  | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,2-Dibromoethane              | U      |           | 0.193  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Dibromomethane                 | U      |           | 0.117  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,2-Dichlorobenzene            | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,3-Dichlorobenzene            | U      |           | 0.130  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,4-Dichlorobenzene            | U      |           | 0.121  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Dichlorodifluoromethane        | U      |           | 0.127  | 2.50  | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,1-Dichloroethane             | U      |           | 0.114  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,2-Dichloroethane             | U      |           | 0.108  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,1-Dichloroethene             | U      |           | 0.188  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| cis-1,2-Dichloroethene         | U      |           | 0.0933 | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| trans-1,2-Dichloroethene       | U      |           | 0.152  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,2-Dichloropropane            | U      |           | 0.190  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,1-Dichloropropene            | U      |           | 0.128  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,3-Dichloropropane            | U      |           | 0.147  | 1.00  | 1        | 04/24/2019 13:54 | WG1271083 |
| cis-1,3-Dichloropropene        | U      |           | 0.0976 | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| trans-1,3-Dichloropropene      | U      |           | 0.222  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| trans-1,4-Dichloro-2-butene    | U      |           | 0.257  | 5.00  | 1        | 04/24/2019 13:54 | WG1271083 |
| 2,2-Dichloropropane            | U      |           | 0.0929 | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Di-isopropyl ether             | U      |           | 0.0924 | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Ethylbenzene                   | U      |           | 0.158  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Hexachloro-1,3-butadiene       | U      |           | 0.157  | 1.00  | 1        | 04/24/2019 13:54 | WG1271083 |
| 2-Hexanone                     | U      |           | 0.757  | 5.00  | 1        | 04/24/2019 13:54 | WG1271083 |
| n-Hexane                       | U      |           | 0.305  | 5.00  | 1        | 04/24/2019 13:54 | WG1271083 |
| Iodomethane                    | U      |           | 0.377  | 10.0  | 1        | 04/24/2019 13:54 | WG1271083 |
| Isopropylbenzene               | U      |           | 0.126  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| p-Isopropyltoluene             | U      |           | 0.138  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 2-Butanone (MEK)               | U      |           | 1.28   | 5.00  | 1        | 04/24/2019 13:54 | WG1271083 |
| Methylene Chloride             | U      |           | 1.07   | 2.50  | 1        | 04/24/2019 13:54 | WG1271083 |
| 4-Methyl-2-pentanone (MIBK)    | U      |           | 0.823  | 5.00  | 1        | 04/24/2019 13:54 | WG1271083 |
| Methyl tert-butyl ether        | U      |           | 0.102  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Naphthalene                    | U      |           | 0.174  | 2.50  | 1        | 04/24/2019 13:54 | WG1271083 |
| n-Propylbenzene                | U      |           | 0.162  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Styrene                        | U      |           | 0.117  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,1,1,2-Tetrachloroethane      | U      |           | 0.120  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,1,2,2-Tetrachloroethane      | U      |           | 0.130  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,1,2-Trichlorotrifluoroethane | U      |           | 0.164  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Tetrachloroethene              | U      |           | 0.199  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Toluene                        | U      |           | 0.412  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,2,3-Trichlorobenzene         | U      |           | 0.164  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,2,4-Trichlorobenzene         | U      |           | 0.355  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,1,1-Trichloroethane          | U      |           | 0.0940 | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,1,2-Trichloroethane          | U      |           | 0.186  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Trichloroethene                | U      |           | 0.153  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Trichlorofluoromethane         | U      | JO        | 0.130  | 2.50  | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,2,3-Trichloropropane         | U      |           | 0.247  | 2.50  | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,2,4-Trimethylbenzene         | U      |           | 0.123  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,2,3-Trimethylbenzene         | U      |           | 0.0739 | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,3,5-Trimethylbenzene         | U      |           | 0.124  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|----------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate                    | U              | <u>JO</u> | 0.645       | 5.00        | 1        | 04/24/2019 13:54        | <a href="#">WG1271083</a> |
| Vinyl chloride                   | U              | <u>JO</u> | 0.118       | 0.500       | 1        | 04/24/2019 13:54        | <a href="#">WG1271083</a> |
| Xylenes, Total                   | U              |           | 0.316       | 1.50        | 1        | 04/24/2019 13:54        | <a href="#">WG1271083</a> |
| <i>(S) Toluene-d8</i>            | 99.6           |           |             | 80.0-120    |          | 04/24/2019 13:54        | <a href="#">WG1271083</a> |
| <i>(S) 4-Bromofluorobenzene</i>  | 105            |           |             | 77.0-126    |          | 04/24/2019 13:54        | <a href="#">WG1271083</a> |
| <i>(S) 1,2-Dichloroethane-d4</i> | 95.4           |           |             | 70.0-130    |          | 04/24/2019 13:54        | <a href="#">WG1271083</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/22/19 00:00

L1091511

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | U              |           | 31.6        | 100         | 1        | 04/23/2019 22:57        | <a href="#">WG1270830</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111            |           |             | 78.0-120    |          | 04/23/2019 22:57        | <a href="#">WG1270830</a> |

- 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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | U              |           | 1.05        | 25.0        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Acrylonitrile               | U              |           | 0.873       | 5.00        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Benzene                     | U              |           | 0.0896      | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Bromobenzene                | U              |           | 0.133       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Bromodichloromethane        | U              |           | 0.0800      | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Bromochloromethane          | U              |           | 0.145       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Bromoform                   | U              |           | 0.186       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Bromomethane                | U              | <u>JO</u> | 0.157       | 2.50        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| n-Butylbenzene              | U              |           | 0.143       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| sec-Butylbenzene            | U              |           | 0.134       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| tert-Butylbenzene           | U              |           | 0.183       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Carbon disulfide            | U              |           | 0.101       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Carbon tetrachloride        | U              |           | 0.159       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Chlorobenzene               | U              |           | 0.140       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Chlorodibromomethane        | U              |           | 0.128       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Chloroethane                | U              | <u>JO</u> | 0.141       | 2.50        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Chloroform                  | U              |           | 0.0860      | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Chloromethane               | U              |           | 0.153       | 1.25        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 2-Chlorotoluene             | U              |           | 0.111       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 4-Chlorotoluene             | U              |           | 0.0972      | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 1,2-Dibromo-3-Chloropropane | U              |           | 0.325       | 2.50        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 1,2-Dibromoethane           | U              |           | 0.193       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Dibromomethane              | U              |           | 0.117       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 1,2-Dichlorobenzene         | U              |           | 0.101       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 1,3-Dichlorobenzene         | U              |           | 0.130       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 1,4-Dichlorobenzene         | U              |           | 0.121       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Dichlorodifluoromethane     | U              |           | 0.127       | 2.50        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 1,1-Dichloroethane          | U              |           | 0.114       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 1,2-Dichloroethane          | U              |           | 0.108       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 1,1-Dichloroethene          | U              |           | 0.188       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| cis-1,2-Dichloroethene      | U              |           | 0.0933      | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| trans-1,2-Dichloroethene    | U              |           | 0.152       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 1,2-Dichloropropane         | U              |           | 0.190       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 1,1-Dichloropropene         | U              |           | 0.128       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 1,3-Dichloropropane         | U              |           | 0.147       | 1.00        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| cis-1,3-Dichloropropene     | U              |           | 0.0976      | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| trans-1,3-Dichloropropene   | U              |           | 0.222       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| trans-1,4-Dichloro-2-butene | U              |           | 0.257       | 5.00        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 2,2-Dichloropropane         | U              |           | 0.0929      | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Di-isopropyl ether          | U              |           | 0.0924      | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Ethylbenzene                | U              |           | 0.158       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Hexachloro-1,3-butadiene    | U              |           | 0.157       | 1.00        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 2-Hexanone                  | U              |           | 0.757       | 5.00        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| n-Hexane                    | U              |           | 0.305       | 5.00        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Iodomethane                 | U              |           | 0.377       | 10.0        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Isopropylbenzene            | U              |           | 0.126       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| p-Isopropyltoluene          | U              |           | 0.138       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 2-Butanone (MEK)            | U              |           | 1.28        | 5.00        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |



Collected date/time: 04/22/19 00:00

L1091511

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Vinyl acetate                  | U              | <u>JO</u> | 0.645       | 5.00        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Vinyl chloride                 | U              | <u>JO</u> | 0.118       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| (S) Toluene-d8                 | 99.5           |           |             | 80.0-120    |          | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| (S) 4-Bromofluorobenzene       | 105            |           |             | 77.0-126    |          | 04/24/2019 12:14        | <a href="#">WG1271083</a> |
| (S) 1,2-Dichloroethane-d4      | 93.6           |           |             | 70.0-130    |          | 04/24/2019 12:14        | <a href="#">WG1271083</a> |

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



Collected date/time: 04/22/19 11:30

L1091511

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | U              |           | 31.6        | 100         | 1        | 04/24/2019 02:08        | <a href="#">WG1270830</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 110            |           |             | 78.0-120    |          | 04/24/2019 02:08        | <a href="#">WG1270830</a> |

1 Cp

2 Tc

3 Ss

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

| Analyte                     | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | U              |           | 1.05        | 25.0        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Acrylonitrile               | U              |           | 0.873       | 5.00        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Benzene                     | U              |           | 0.0896      | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Bromobenzene                | U              |           | 0.133       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Bromodichloromethane        | U              |           | 0.0800      | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Bromochloromethane          | U              |           | 0.145       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Bromoform                   | U              |           | 0.186       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Bromomethane                | U              | <u>JO</u> | 0.157       | 2.50        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| n-Butylbenzene              | U              |           | 0.143       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| sec-Butylbenzene            | U              |           | 0.134       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| tert-Butylbenzene           | U              |           | 0.183       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Carbon disulfide            | U              |           | 0.101       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Carbon tetrachloride        | U              |           | 0.159       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Chlorobenzene               | U              |           | 0.140       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Chlorodibromomethane        | U              |           | 0.128       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Chloroethane                | U              | <u>JO</u> | 0.141       | 2.50        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Chloroform                  | 1.28           |           | 0.0860      | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Chloromethane               | U              |           | 0.153       | 1.25        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 2-Chlorotoluene             | U              |           | 0.111       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 4-Chlorotoluene             | U              |           | 0.0972      | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,2-Dibromo-3-Chloropropane | U              |           | 0.325       | 2.50        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,2-Dibromoethane           | U              |           | 0.193       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Dibromomethane              | U              |           | 0.117       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,2-Dichlorobenzene         | U              |           | 0.101       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,3-Dichlorobenzene         | U              |           | 0.130       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,4-Dichlorobenzene         | U              |           | 0.121       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Dichlorodifluoromethane     | U              |           | 0.127       | 2.50        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,1-Dichloroethane          | U              |           | 0.114       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,2-Dichloroethane          | U              |           | 0.108       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,1-Dichloroethene          | U              |           | 0.188       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| cis-1,2-Dichloroethene      | U              |           | 0.0933      | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| trans-1,2-Dichloroethene    | U              |           | 0.152       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,2-Dichloropropane         | U              |           | 0.190       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,1-Dichloropropene         | U              |           | 0.128       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,3-Dichloropropane         | U              |           | 0.147       | 1.00        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| cis-1,3-Dichloropropene     | U              |           | 0.0976      | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| trans-1,3-Dichloropropene   | U              |           | 0.222       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| trans-1,4-Dichloro-2-butene | U              |           | 0.257       | 5.00        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 2,2-Dichloropropane         | U              |           | 0.0929      | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Di-isopropyl ether          | U              |           | 0.0924      | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Ethylbenzene                | U              |           | 0.158       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Hexachloro-1,3-butadiene    | U              |           | 0.157       | 1.00        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 2-Hexanone                  | U              |           | 0.757       | 5.00        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| n-Hexane                    | U              |           | 0.305       | 5.00        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Iodomethane                 | U              |           | 0.377       | 10.0        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Isopropylbenzene            | U              |           | 0.126       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| p-Isopropyltoluene          | U              |           | 0.138       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 2-Butanone (MEK)            | U              |           | 1.28        | 5.00        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Collected date/time: 04/22/19 11:30

L1091511

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Tetrachloroethene              | 0.499          | <u>U</u>  | 0.199       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Toluene                        | 0.428          | <u>U</u>  | 0.412       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Trichloroethene                | 0.155          | <u>U</u>  | 0.153       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Vinyl acetate                  | U              | <u>JO</u> | 0.645       | 5.00        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Vinyl chloride                 | U              | <u>JO</u> | 0.118       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| (S) Toluene-d8                 | 99.5           |           |             | 80.0-120    |          | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| (S) 4-Bromofluorobenzene       | 104            |           |             | 77.0-126    |          | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| (S) 1,2-Dichloroethane-d4      | 94.6           |           |             | 70.0-130    |          | 04/24/2019 14:14        | <a href="#">WG1271083</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3406609-1 04/29/19 15:19

| Analyte    | MB Result | MB Qualifier | MB MDL | MB RDL |
|------------|-----------|--------------|--------|--------|
| Alkalinity | 3140      | ↓            | 2710   | 20000  |

Sample Narrative:

BLANK: Endpoint pH 4.5

L1091051-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1091051-02 04/29/19 15:25 • (DUP) R3406609-3 04/29/19 15:33

| Analyte    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------|-----------------|------------|----------|---------|---------------|----------------|
| Alkalinity | 171000          | 172000     | 1        | 0.927   |               | 20             |

Sample Narrative:

OS: Endpoint pH 4.5 headspace  
DUP: Endpoint pH 4.5

L1091709-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1091709-05 04/29/19 18:19 • (DUP) R3406609-6 04/29/19 18:26

| Analyte    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------|-----------------|------------|----------|---------|---------------|----------------|
| Alkalinity | 1070000         | 1070000    | 1        | 0.269   |               | 20             |

Sample Narrative:

OS: Endpoint pH 4.5 headspace  
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3406609-5 04/29/19 16:32

| Analyte    | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|------------|--------------|------------|----------|-------------|---------------|
| Alkalinity | 100000       | 102000     | 102      | 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) R3404733-1 04/23/19 09:46

| 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   |

L1091072-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1091072-01 04/23/19 11:53 • (DUP) R3404733-3 04/23/19 12:07

| Analyte  | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
|          | ug/l            | ug/l       |          | %       |               | %              |
| Chloride | 3350            | 3360       | 1        | 0.307   |               | 15             |
| Nitrate  | ND              | 65.0       | 1        | 0.000   |               | 15             |
| Sulfate  | ND              | 347        | 1        | 0.000   |               | 15             |

L1091484-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1091484-01 04/23/19 17:20 • (DUP) R3404733-6 04/23/19 17:35

| Analyte  | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
|          | ug/l            | ug/l       |          | %       |               | %              |
| Chloride | 65900           | 65800      | 1        | 0.137   |               | 15             |
| Nitrate  | ND              | 0.000      | 1        | 0.000   |               | 15             |
| Sulfate  | 29900           | 29900      | 1        | 0.0678  |               | 15             |

Laboratory Control Sample (LCS)

(LCS) R3404733-2 04/23/19 10:01

| Analyte  | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------|--------------|------------|----------|-------------|---------------|
|          | ug/l         | ug/l       | %        | %           |               |
| Chloride | 40000        | 40300      | 101      | 80.0-120    |               |
| Nitrate  | 8000         | 8280       | 103      | 80.0-120    |               |
| Sulfate  | 40000        | 41100      | 103      | 80.0-120    |               |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



L1091072-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1091072-01 04/23/19 11:53 • (MS) R3404733-4 04/23/19 12:22 • (MSD) R3404733-5 04/23/19 12:37

| Analyte  | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MSD Result<br>ug/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Chloride | 50000                | 3350                    | 53400             | 53500              | 100          | 100           | 1        | 80.0-120         |              |               | 0.140    | 15              |
| Nitrate  | 5000                 | ND                      | 5070              | 5090               | 100          | 101           | 1        | 80.0-120         |              |               | 0.325    | 15              |
| Sulfate  | 50000                | ND                      | 51000             | 51100              | 101          | 101           | 1        | 80.0-120         |              |               | 0.196    | 15              |

1 Cp

2 Tc

3 Ss

4 Cn

L1091484-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1091484-01 04/23/19 17:20 • (MS) R3404733-7 04/23/19 17:50

| Analyte  | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MS Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier |
|----------|----------------------|-------------------------|-------------------|--------------|----------|------------------|--------------|
| Chloride | 50000                | 65900                   | 114000            | 95.1         | 1        | 80.0-120         | <u>E</u>     |
| Nitrate  | 5000                 | ND                      | 4970              | 99.4         | 1        | 80.0-120         |              |
| Sulfate  | 50000                | 29900                   | 79300             | 98.8         | 1        | 80.0-120         |              |

5 Sr

6 Qc

7 Gl

L1087661-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1087661-01 04/23/19 19:16 • (MS) R3404733-8 04/23/19 19:30 • (MSD) R3404733-9 04/23/19 19:45

| Analyte  | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MSD Result<br>ug/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Chloride | 50000                | 40000                   | 89700             | 89600              | 99.3         | 99.1          | 1        | 80.0-120         |              |               | 0.101    | 15              |
| Nitrate  | 5000                 | U                       | 4800              | 4800               | 96.0         | 95.9          | 1        | 80.0-120         |              |               | 0.100    | 15              |
| Sulfate  | 50000                | 725000                  | 733000            | 733000             | 15.7         | 16.1          | 1        | 80.0-120         | <u>EV</u>    | <u>EV</u>     | 0.0331   | 15              |

8 Al

9 Sc



Method Blank (MB)

(MB) R3404780-1 04/23/19 18:14

| Analyte                    | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------------------|-----------|--------------|--------|--------|
| TOC (Total Organic Carbon) | 258       | ↓            | 102    | 1000   |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1091249-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1091249-15 04/23/19 19:34 • (DUP) R3404780-3 04/23/19 19:50

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
| TOC     | ND              | 316        | 1        | 0.000   |               | 20             |

L1091616-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1091616-02 04/23/19 23:34 • (DUP) R3404780-6 04/23/19 23:47

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
| TOC     | 814000          | 795000     | 20       | 2.37    |               | 20             |

Laboratory Control Sample (LCS)

(LCS) R3404780-2 04/23/19 18:46

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------|--------------|------------|----------|-------------|---------------|
| TOC     | 75000        | 75300      | 100      | 85.0-115    |               |

L1091465-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1091465-01 04/23/19 22:07 • (MS) R3404780-4 04/23/19 22:21 • (MSD) R3404780-5 04/23/19 22:35

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD    | RPD Limits |
|---------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|--------|------------|
| TOC     | 50000        | 4090            | 51600     | 51600      | 95.0    | 95.0     | 1        | 80.0-120    |              |               | 0.0388 | 20         |

L1091616-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1091616-08 04/24/19 02:16 • (MS) R3404780-7 04/24/19 02:30 • (MSD) R3404780-8 04/24/19 02:44

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD   | RPD Limits |
|---------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| TOC     | 50000        | 5250            | 54800     | 54300      | 99.1    | 98.1     | 1        | 80.0-120    |              |               | 0.954 | 20         |



Method Blank (MB)

(MB) R3406868-1 05/01/19 00:18

| Analyte   | MB Result | MB Qualifier | MB MDL | MB RDL |
|-----------|-----------|--------------|--------|--------|
| Iron      | ug/l      |              | ug/l   | ug/l   |
| Iron      | U         |              | 15.0   | 100    |
| Manganese | U         |              | 0.250  | 5.00   |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

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

(LCS) R3406868-2 05/01/19 00:23 • (LCSD) R3406868-3 05/01/19 00:27

| Analyte   | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |
|-----------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| Iron      | ug/l         | ug/l       | ug/l        | %        | %         | %           |               |                | %    | %          |
| Iron      | 500          | 498        | 488         | 99.6     | 97.6      | 80.0-120    |               |                | 2.06 | 20         |
| Manganese | 50.0         | 49.1       | 47.1        | 98.1     | 94.1      | 80.0-120    |               |                | 4.14 | 20         |

<sup>5</sup> Sr

<sup>6</sup> Qc

L1090824-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1090824-02 05/01/19 00:32 • (MS) R3406868-5 05/01/19 00:41 • (MSD) R3406868-6 05/01/19 00:46

| Analyte   | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD  | RPD Limits |
|-----------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Iron      | ug/l         | ug/l            | ug/l      | ug/l       | %       | %        |          | %           |              |               | %    | %          |
| Iron      | 500          | 899             | 1380      | 1480       | 97.0    | 117      | 1        | 75.0-125    |              |               | 6.95 | 20         |
| Manganese | 50.0         | 164             | 207       | 211        | 86.9    | 94.4     | 1        | 75.0-125    |              |               | 1.80 | 20         |

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3405465-2 04/23/19 22:33

| Analyte                            | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| Gasoline Range Organics-NWTPH      | U                 |              | 31.6           | 100            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 111               |              |                | 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)

(LCS) R3405465-1 04/23/19 21:45

| Analyte                            | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|----------------------|--------------------|---------------|------------------|---------------|
| Gasoline Range Organics-NWTPH      | 5500                 | 6170               | 112           | 70.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                    | 103           | 78.0-120         |               |

L1091183-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1091183-01 04/23/19 23:44 • (MS) R3405465-3 04/24/19 06:54 • (MSD) R3405465-4 04/24/19 07:18

| Analyte                            | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MSD Result<br>ug/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Gasoline Range Organics-NWTPH      | 5500                 | U                       | 6400              | 5810               | 116          | 106           | 1        | 10.0-155         |              |               | 9.60     | 21              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                         |                   |                    | 103          | 102           |          | 78.0-120         |              |               |          |                 |



Method Blank (MB)

(MB) R3404989-1 04/24/19 13:45

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------|-----------|--------------|--------|--------|
|         | ug/l      |              | ug/l   | ug/l   |
| Methane | U         |              | 0.287  | 0.678  |
| Ethane  | U         |              | 0.296  | 1.29   |
| Ethene  | U         |              | 0.422  | 1.27   |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1091477-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1091477-07 04/24/19 13:48 • (DUP) R3404989-2 04/24/19 15:25

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
|         | ug/l            | ug/l       |          | %       |               | %              |
| Methane | 7640            | 7300       | 10       | 4.64    |               | 20             |
| Ethane  | U               | 0.000      | 10       | 0.000   |               | 20             |
| Ethene  | U               | 0.000      | 10       | 0.000   |               | 20             |

L1091573-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1091573-05 04/24/19 13:57 • (DUP) R3404989-3 04/24/19 15:30

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
|         | ug/l            | ug/l       |          | %       |               | %              |
| Methane | 15100           | 15000      | 10       | 0.0720  |               | 20             |
| Ethane  | U               | 0.000      | 10       | 0.000   |               | 20             |
| Ethene  | U               | 0.000      | 10       | 0.000   |               | 20             |

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

(LCS) R3404989-4 04/24/19 15:33 • (LCSD) R3404989-5 04/24/19 15:36

| 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        | %        | %         | %           |               |                | %     | %          |
| Methane | 67.8         | 76.1       | 77.2        | 112      | 114       | 85.0-115    |               |                | 1.43  | 20         |
| Ethane  | 129          | 119        | 121         | 92.2     | 93.6      | 85.0-115    |               |                | 1.54  | 20         |
| Ethene  | 127          | 123        | 122         | 96.9     | 96.3      | 85.0-115    |               |                | 0.680 | 20         |





Method Blank (MB)

(MB) R3405761-3 04/24/19 10:19

| Analyte                     | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>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          |
| Carbon disulfide            | U                 |              | 0.101          | 0.500          |
| sec-Butylbenzene            | U                 |              | 0.134          | 0.500          |
| Carbon tetrachloride        | U                 |              | 0.159          | 0.500          |
| tert-Butylbenzene           | U                 |              | 0.183          | 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          |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3405761-3 04/24/19 10:19

| Analyte                        | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|--------------------------------|-------------------|--------------|----------------|----------------|
| Hexachloro-1,3-butadiene       | 0.275             | U            | 0.157          | 1.00           |
| 2-Hexanone                     | U                 |              | 0.757          | 5.00           |
| n-Hexane                       | U                 |              | 0.305          | 5.00           |
| Iodomethane                    | U                 |              | 0.377          | 10.0           |
| Ethylbenzene                   | U                 |              | 0.158          | 0.500          |
| 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           |
| Isopropylbenzene               | U                 |              | 0.126          | 0.500          |
| Styrene                        | U                 |              | 0.117          | 0.500          |
| 1,1,1,2-Tetrachloroethane      | U                 |              | 0.120          | 0.500          |
| p-Isopropyltoluene             | U                 |              | 0.138          | 0.500          |
| 1,1,2,2-Tetrachloroethane      | U                 |              | 0.130          | 0.500          |
| 1,1,2-Trichlorotrifluoroethane | U                 |              | 0.164          | 0.500          |
| Tetrachloroethene              | U                 |              | 0.199          | 0.500          |
| 1,2,3-Trichlorobenzene         | U                 |              | 0.164          | 0.500          |
| 1,2,4-Trichlorobenzene         | U                 |              | 0.355          | 0.500          |
| Methyl tert-butyl ether        | U                 |              | 0.102          | 0.500          |
| 1,1,1-Trichloroethane          | U                 |              | 0.0940         | 0.500          |
| 1,1,2-Trichloroethane          | U                 |              | 0.186          | 0.500          |
| Naphthalene                    | U                 |              | 0.174          | 2.50           |
| Trichloroethene                | U                 |              | 0.153          | 0.500          |
| Trichlorofluoromethane         | U                 |              | 0.130          | 2.50           |
| 1,2,3-Trichloropropane         | U                 |              | 0.247          | 2.50           |
| n-Propylbenzene                | U                 |              | 0.162          | 0.500          |
| 1,2,3-Trimethylbenzene         | U                 |              | 0.0739         | 0.500          |
| Vinyl acetate                  | U                 |              | 0.645          | 5.00           |
| Vinyl chloride                 | U                 |              | 0.118          | 0.500          |
| Toluene                        | U                 |              | 0.412          | 0.500          |
| Xylenes, Total                 | U                 |              | 0.316          | 1.50           |
| 1,2,4-Trimethylbenzene         | U                 |              | 0.123          | 0.500          |
| 1,3,5-Trimethylbenzene         | U                 |              | 0.124          | 0.500          |
| (S) Toluene-d8                 | 102               |              |                | 80.0-120       |
| (S) 4-Bromofluorobenzene       | 107               |              |                | 77.0-126       |
| (S) 1,2-Dichloroethane-d4      | 91.2              |              |                | 70.0-130       |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



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

(LCS) R3405761-1 04/24/19 09:19 • (LCSD) R3405761-2 04/24/19 09:39

| Analyte                     | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Acetone                     | 125                  | 156                | 148                 | 124           | 119            | 19.0-160         |               |                | 4.69     | 27              |
| Acrylonitrile               | 125                  | 150                | 158                 | 120           | 126            | 55.0-149         |               |                | 4.93     | 20              |
| Bromobenzene                | 25.0                 | 23.2               | 23.5                | 92.9          | 94.2           | 73.0-121         |               |                | 1.38     | 20              |
| Bromodichloromethane        | 25.0                 | 22.3               | 22.2                | 89.3          | 89.0           | 75.0-120         |               |                | 0.350    | 20              |
| Bromochloromethane          | 25.0                 | 23.7               | 23.6                | 94.9          | 94.5           | 76.0-122         |               |                | 0.414    | 20              |
| Bromoform                   | 25.0                 | 27.4               | 26.8                | 110           | 107            | 68.0-132         |               |                | 2.18     | 20              |
| Bromomethane                | 25.0                 | 17.9               | 17.6                | 71.5          | 70.3           | 10.0-160         |               |                | 1.67     | 25              |
| Carbon disulfide            | 25.0                 | 27.9               | 28.1                | 111           | 113            | 61.0-128         |               |                | 1.03     | 20              |
| Carbon tetrachloride        | 25.0                 | 23.3               | 23.4                | 93.1          | 93.6           | 68.0-126         |               |                | 0.508    | 20              |
| Chlorobenzene               | 25.0                 | 23.9               | 23.7                | 95.8          | 94.7           | 80.0-121         |               |                | 1.19     | 20              |
| Chlorodibromomethane        | 25.0                 | 24.3               | 23.9                | 97.1          | 95.6           | 77.0-125         |               |                | 1.64     | 20              |
| Chloroethane                | 25.0                 | 16.6               | 16.5                | 66.5          | 66.1           | 47.0-150         |               |                | 0.641    | 20              |
| Chloroform                  | 25.0                 | 21.9               | 21.9                | 87.7          | 87.7           | 73.0-120         |               |                | 0.0865   | 20              |
| Chloromethane               | 25.0                 | 25.8               | 26.7                | 103           | 107            | 41.0-142         |               |                | 3.31     | 20              |
| 2-Chlorotoluene             | 25.0                 | 22.1               | 23.1                | 88.3          | 92.4           | 76.0-123         |               |                | 4.55     | 20              |
| 4-Chlorotoluene             | 25.0                 | 22.5               | 23.3                | 90.2          | 93.0           | 75.0-122         |               |                | 3.15     | 20              |
| 1,2-Dibromo-3-Chloropropane | 25.0                 | 26.5               | 28.6                | 106           | 114            | 58.0-134         |               |                | 7.78     | 20              |
| 1,2-Dibromoethane           | 25.0                 | 23.7               | 23.5                | 94.9          | 94.0           | 80.0-122         |               |                | 1.05     | 20              |
| Dibromomethane              | 25.0                 | 22.8               | 22.7                | 91.2          | 90.7           | 80.0-120         |               |                | 0.460    | 20              |
| 1,2-Dichlorobenzene         | 25.0                 | 23.0               | 23.4                | 91.9          | 93.7           | 79.0-121         |               |                | 1.90     | 20              |
| 1,3-Dichlorobenzene         | 25.0                 | 22.6               | 23.1                | 90.4          | 92.5           | 79.0-120         |               |                | 2.30     | 20              |
| 1,4-Dichlorobenzene         | 25.0                 | 22.0               | 22.0                | 88.0          | 87.9           | 79.0-120         |               |                | 0.0272   | 20              |
| Dichlorodifluoromethane     | 25.0                 | 25.9               | 25.8                | 104           | 103            | 51.0-149         |               |                | 0.138    | 20              |
| 1,1-Dichloroethane          | 25.0                 | 24.4               | 24.7                | 97.4          | 98.8           | 70.0-126         |               |                | 1.36     | 20              |
| 1,2-Dichloroethane          | 25.0                 | 20.9               | 21.0                | 83.4          | 83.9           | 70.0-128         |               |                | 0.549    | 20              |
| 1,1-Dichloroethene          | 25.0                 | 24.6               | 24.4                | 98.3          | 97.6           | 71.0-124         |               |                | 0.735    | 20              |
| cis-1,2-Dichloroethene      | 25.0                 | 24.0               | 23.7                | 95.9          | 94.7           | 73.0-120         |               |                | 1.21     | 20              |
| Benzene                     | 25.0                 | 25.9               | 25.8                | 104           | 103            | 70.0-123         |               |                | 0.330    | 20              |
| trans-1,2-Dichloroethene    | 25.0                 | 24.2               | 24.7                | 96.8          | 98.9           | 73.0-120         |               |                | 2.14     | 20              |
| 1,2-Dichloropropane         | 25.0                 | 26.3               | 26.3                | 105           | 105            | 77.0-125         |               |                | 0.163    | 20              |
| 1,1-Dichloropropene         | 25.0                 | 24.3               | 24.2                | 97.0          | 96.7           | 74.0-126         |               |                | 0.352    | 20              |
| 1,3-Dichloropropane         | 25.0                 | 25.1               | 25.0                | 101           | 99.9           | 80.0-120         |               |                | 0.653    | 20              |
| cis-1,3-Dichloropropene     | 25.0                 | 23.5               | 23.1                | 93.8          | 92.5           | 80.0-123         |               |                | 1.45     | 20              |
| trans-1,3-Dichloropropene   | 25.0                 | 22.6               | 22.5                | 90.5          | 89.9           | 78.0-124         |               |                | 0.668    | 20              |
| trans-1,4-Dichloro-2-butene | 25.0                 | 20.8               | 21.7                | 83.3          | 86.9           | 33.0-144         |               |                | 4.23     | 20              |
| 2,2-Dichloropropane         | 25.0                 | 25.9               | 25.9                | 104           | 104            | 58.0-130         |               |                | 0.0126   | 20              |
| n-Butylbenzene              | 25.0                 | 21.5               | 21.8                | 85.9          | 87.4           | 73.0-125         |               |                | 1.72     | 20              |
| Di-isopropyl ether          | 25.0                 | 27.9               | 28.3                | 111           | 113            | 58.0-138         |               |                | 1.53     | 20              |
| sec-Butylbenzene            | 25.0                 | 22.4               | 23.0                | 89.5          | 91.9           | 75.0-125         |               |                | 2.67     | 20              |
| tert-Butylbenzene           | 25.0                 | 23.1               | 24.1                | 92.3          | 96.5           | 76.0-124         |               |                | 4.41     | 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) R3405761-1 04/24/19 09:19 • (LCSD) R3405761-2 04/24/19 09:39

| Analyte                        | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|--------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Hexachloro-1,3-butadiene       | 25.0                 | 27.6               | 29.3                | 110           | 117            | 54.0-138         |               |                | 6.19     | 20              |
| 2-Hexanone                     | 125                  | 146                | 148                 | 117           | 119            | 67.0-149         |               |                | 1.62     | 20              |
| n-Hexane                       | 25.0                 | 26.0               | 24.9                | 104           | 99.4           | 57.0-133         |               |                | 4.59     | 20              |
| Iodomethane                    | 125                  | 133                | 133                 | 106           | 106            | 33.0-147         |               |                | 0.179    | 26              |
| 2-Butanone (MEK)               | 125                  | 155                | 160                 | 124           | 128            | 44.0-160         |               |                | 3.27     | 20              |
| Methylene Chloride             | 25.0                 | 24.5               | 25.0                | 98.1          | 100            | 67.0-120         |               |                | 2.09     | 20              |
| 4-Methyl-2-pentanone (MIBK)    | 125                  | 143                | 145                 | 115           | 116            | 68.0-142         |               |                | 1.19     | 20              |
| Styrene                        | 25.0                 | 27.4               | 26.7                | 110           | 107            | 73.0-130         |               |                | 2.64     | 20              |
| 1,1,1,2-Tetrachloroethane      | 25.0                 | 24.1               | 24.1                | 96.3          | 96.5           | 75.0-125         |               |                | 0.203    | 20              |
| 1,1,2,2-Tetrachloroethane      | 25.0                 | 20.9               | 21.7                | 83.7          | 87.0           | 65.0-130         |               |                | 3.84     | 20              |
| 1,1,2-Trichlorotrifluoroethane | 25.0                 | 22.8               | 22.6                | 91.1          | 90.6           | 69.0-132         |               |                | 0.600    | 20              |
| Tetrachloroethene              | 25.0                 | 25.2               | 24.6                | 101           | 98.6           | 72.0-132         |               |                | 2.13     | 20              |
| 1,2,3-Trichlorobenzene         | 25.0                 | 23.4               | 25.1                | 93.7          | 100            | 50.0-138         |               |                | 6.79     | 20              |
| 1,2,4-Trichlorobenzene         | 25.0                 | 23.9               | 25.3                | 95.5          | 101            | 57.0-137         |               |                | 6.02     | 20              |
| 1,1,1-Trichloroethane          | 25.0                 | 23.6               | 23.6                | 94.3          | 94.3           | 73.0-124         |               |                | 0.0116   | 20              |
| 1,1,2-Trichloroethane          | 25.0                 | 23.1               | 22.9                | 92.6          | 91.4           | 80.0-120         |               |                | 1.26     | 20              |
| Trichloroethene                | 25.0                 | 26.1               | 25.9                | 104           | 104            | 78.0-124         |               |                | 0.572    | 20              |
| Trichlorofluoromethane         | 25.0                 | 16.0               | 15.8                | 64.0          | 63.3           | 59.0-147         |               |                | 1.09     | 20              |
| 1,2,3-Trichloropropane         | 25.0                 | 20.6               | 21.9                | 82.6          | 87.4           | 73.0-130         |               |                | 5.66     | 20              |
| 1,2,3-Trimethylbenzene         | 25.0                 | 21.6               | 22.1                | 86.6          | 88.6           | 77.0-120         |               |                | 2.31     | 20              |
| Vinyl acetate                  | 125                  | 72.4               | 73.4                | 57.9          | 58.7           | 11.0-160         |               |                | 1.37     | 20              |
| Vinyl chloride                 | 25.0                 | 18.3               | 18.2                | 73.2          | 72.7           | 67.0-131         |               |                | 0.636    | 20              |
| Xylenes, Total                 | 75.0                 | 73.5               | 73.4                | 98.0          | 97.9           | 79.0-123         |               |                | 0.136    | 20              |
| Ethylbenzene                   | 25.0                 | 24.2               | 24.2                | 96.8          | 96.9           | 79.0-123         |               |                | 0.119    | 20              |
| Isopropylbenzene               | 25.0                 | 25.4               | 25.3                | 102           | 101            | 76.0-127         |               |                | 0.180    | 20              |
| p-Isopropyltoluene             | 25.0                 | 22.5               | 23.2                | 90.1          | 92.7           | 76.0-125         |               |                | 2.85     | 20              |
| Methyl tert-butyl ether        | 25.0                 | 23.5               | 23.7                | 94.1          | 94.8           | 68.0-125         |               |                | 0.771    | 20              |
| Naphthalene                    | 25.0                 | 23.2               | 24.8                | 92.7          | 99.1           | 54.0-135         |               |                | 6.76     | 20              |
| n-Propylbenzene                | 25.0                 | 22.1               | 22.4                | 88.4          | 89.7           | 77.0-124         |               |                | 1.48     | 20              |
| Toluene                        | 25.0                 | 25.8               | 25.4                | 103           | 102            | 79.0-120         |               |                | 1.62     | 20              |
| 1,2,4-Trimethylbenzene         | 25.0                 | 22.1               | 22.5                | 88.5          | 90.0           | 76.0-121         |               |                | 1.68     | 20              |
| 1,3,5-Trimethylbenzene         | 25.0                 | 22.2               | 23.0                | 88.7          | 92.0           | 76.0-122         |               |                | 3.67     | 20              |
| (S) Toluene-d8                 |                      |                    |                     | 101           | 100            | 80.0-120         |               |                |          |                 |
| (S) 4-Bromofluorobenzene       |                      |                    |                     | 107           | 106            | 77.0-126         |               |                |          |                 |
| (S) 1,2-Dichloroethane-d4      |                      |                    |                     | 92.9          | 91.6           | 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.  |

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

| 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.        |
| 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 <sup>1</sup>     | n/a              |
| Colorado                | TN00003     | New York                    | 11742            |
| Connecticut             | PH-0197     | North Carolina              | Env375           |
| Florida                 | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                 | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>    | 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 <sup>1,6</sup> | 90010       | South Carolina              | 84004            |
| Kentucky <sup>2</sup>   | 16          | South Dakota                | n/a              |
| Louisiana               | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana <sup>1</sup>  | LA180010    | Texas                       | T104704245-18-15 |
| Maine                   | TN0002      | Texas <sup>5</sup>          | 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             |

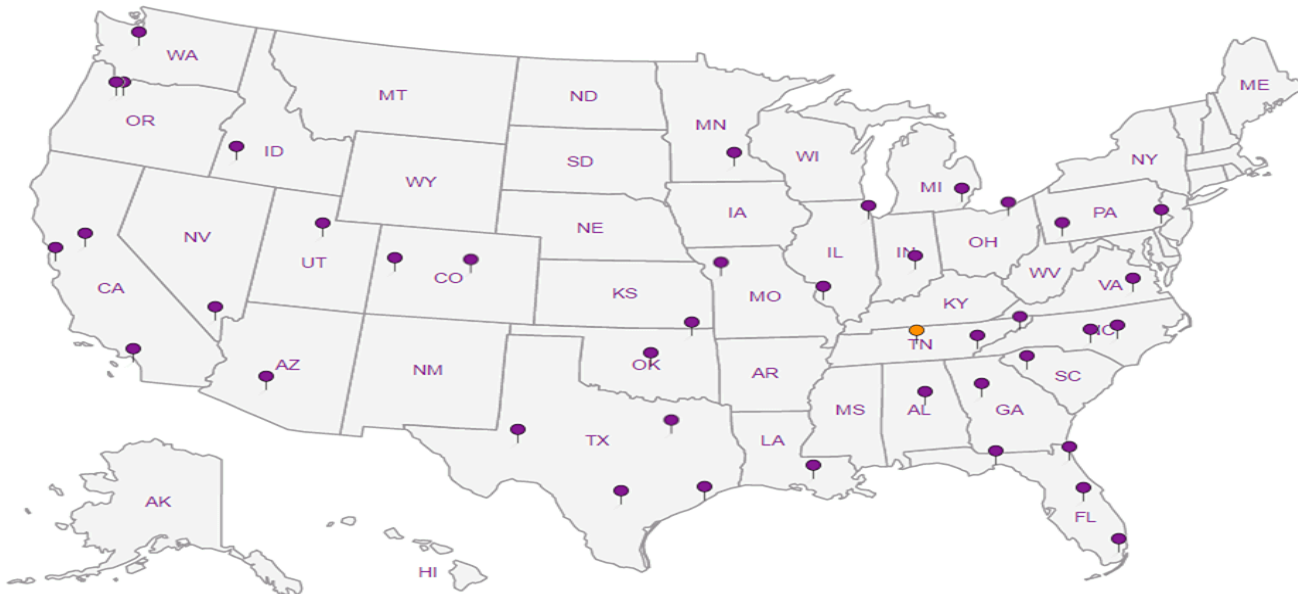
## Third Party Federal Accreditations

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

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



**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 #  
1413.001.05.601

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  
Cntrs

| Sample ID        | Comp/Grab | Matrix * | Depth | Date    | Time | No. of Cntrs |
|------------------|-----------|----------|-------|---------|------|--------------|
| MW-138-042219    | GRAB      | GW       | 110   | 4/22/19 | 1030 | 12           |
| GEI-1-042219     |           | GW       | 31    |         | 1040 | 6            |
| R-MW5-042219     |           | GW       | 24    |         | 1130 | 12           |
| GEI-2-042219     |           | GW       | 55    |         | 1150 | 6            |
| FMW-131-042219   |           | GW       | 68    |         | 1255 | 6            |
| MW112-042219     |           | GW       | 80    |         | 1300 | 12           |
| TRIPBLANK-042219 | -         | GW       | -     | 4/22/19 | -    | 1            |
| R-MW5-042219     | GRAB      | GW       | 24    | 4/22/19 | 1130 | 6            |
|                  |           | GW       |       |         |      |              |
|                  |           | GW       |       |         |      |              |

| Analysis / Container / Preservative  |  |
|--|--|
| NWTPHGX 40mlAmb HCl  |  |
| VOCs (V8260LLC) 40mlAmb-HCl  |  |
| Alkalinity (2320 B-2011)   |  |
| Cl <sup>-</sup> , SO <sub>4</sub> <sup>2-</sup> , NO <sub>3</sub> <sup>-</sup> (9056A) |  |
| TOC (9060A)  |  |
| IRON/MANGANESE (6020A)   |  |
| Methane/Ethane/Ethane (RSL75)  |  |

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# L/091511  
A047

Acctnum: PESENVSWA  
Template: T146397  
Prelogin: P694557  
TSR: 110 - Brian Ford  
PB: 2/15/19 mc

Shipped Via: FedEX Ground

| Remarks | Sample # (lab only) |
|---------|---------------------|
|         | -01                 |
|         | -02                 |
|         | -03                 |
|         | -04                 |
|         | -05                 |
|         | -06                 |
|         | -07                 |

\* 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 # 4757

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  
RAD 0.05 mR/hr

|                              |               |            |                                  |  |
|------------------------------|---------------|------------|----------------------------------|--|
| Relinquished by: (Signature) | Date: 4/22/19 | Time: 1530 | Received by: (Signature)         | Trip Blank Received: Yes/No<br>1 <input checked="" type="checkbox"/> HCl / MeOH<br>TBR |
| Relinquished by: (Signature) | Date:         | Time:      | Received by: (Signature)         | Temp: 17.6 °C<br>4.4+1=45  |
| Relinquished by: (Signature) | Date:         | Time:      | Received for lab by: (Signature) | Date: 4-23-19 Time: 8:45   |

If preservation required by Login: Date/Time

Hold:

Condition: NCF /  OK



Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 139000 |           | 2710 | 20000 | 1        | 04/29/2019 16:02 | <a href="#">WG1273424</a> |

Sample Narrative:

L1091511-01 WG1273424: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 14200  |           | 51.9 | 1000 | 1        | 04/23/2019 18:05 | <a href="#">WG1270336</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/23/2019 18:05 | <a href="#">WG1270336</a> |
| Sulfate  | 42700  |           | 77.4 | 5000 | 1        | 04/23/2019 18:05 | <a href="#">WG1270336</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 5700   |           | 102  | 1000 | 1        | 04/23/2019 22:50 | <a href="#">WG1270623</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Iron      | 13200  |           | 150  | 1000 | 10       | 05/01/2019 19:39 | <a href="#">WG1271163</a> |
| Manganese | 509    |           | 2.50 | 50.0 | 10       | 05/01/2019 19:39 | <a href="#">WG1271163</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 04/24/2019 01:20 | <a href="#">WG1270830</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 110    |           |      | 78.0-120 |          | 04/24/2019 01:20 | <a href="#">WG1270830</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 164    |           | 0.287 | 0.678 | 1        | 04/24/2019 13:51 | <a href="#">WG1271117</a> |
| Ethane  | U      |           | 0.296 | 1.29  | 1        | 04/24/2019 13:51 | <a href="#">WG1271117</a> |
| Ethene  | 1.43   |           | 0.422 | 1.27  | 1        | 04/24/2019 13:51 | <a href="#">WG1271117</a> |

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

| Analyte              | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch                     |                           |
|----------------------|--------|-----------|--------|-------|----------|------------------|---------------------------|---------------------------|
|                      | ug/l   |           | ug/l   | ug/l  |          | date / time      |                           |                           |
| Acetone              | 2.56   | J         | J JO   | 1.05  | 25.0     | 1                | 04/24/2019 12:34          | <a href="#">WG1271083</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |                           |
| Benzene              | U      |           | 0.0896 | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |                           |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |                           |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |                           |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |                           |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |                           |
| Bromomethane         | U      | UJ        | JO     | 0.157 | 2.50     | 1                | 04/24/2019 12:34          | <a href="#">WG1271083</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |                           |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |                           |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |                           |
| Carbon disulfide     | 0.405  | J         | J      | 0.101 | 0.500    | 1                | 04/24/2019 12:34          | <a href="#">WG1271083</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 04/24/2019 12:34 | <a href="#">WG1271083</a> |                           |

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      |           |
| Chlorobenzene                  | U      |           | 0.140  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| Chlorodibromomethane           | U      |           | 0.128  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| Chloroethane                   | U      | UJ JO     | 0.141  | 2.50  | 1        | 04/24/2019 12:34 | WG1271083 |
| Chloroform                     | U      |           | 0.0860 | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| Chloromethane                  | U      |           | 0.153  | 1.25  | 1        | 04/24/2019 12:34 | WG1271083 |
| 2-Chlorotoluene                | U      |           | 0.111  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| 4-Chlorotoluene                | U      |           | 0.0972 | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| 1,2-Dibromo-3-Chloropropane    | U      |           | 0.325  | 2.50  | 1        | 04/24/2019 12:34 | WG1271083 |
| 1,2-Dibromoethane              | U      |           | 0.193  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| Dibromomethane                 | U      |           | 0.117  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| 1,2-Dichlorobenzene            | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| 1,3-Dichlorobenzene            | U      |           | 0.130  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| 1,4-Dichlorobenzene            | U      |           | 0.121  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| Dichlorodifluoromethane        | U      |           | 0.127  | 2.50  | 1        | 04/24/2019 12:34 | WG1271083 |
| 1,1-Dichloroethane             | U      |           | 0.114  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| 1,2-Dichloroethane             | U      |           | 0.108  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| 1,1-Dichloroethene             | U      |           | 0.188  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| cis-1,2-Dichloroethene         | U      |           | 0.0933 | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| trans-1,2-Dichloroethene       | U      |           | 0.152  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| 1,2-Dichloropropane            | U      |           | 0.190  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| 1,1-Dichloropropene            | U      |           | 0.128  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| 1,3-Dichloropropane            | U      |           | 0.147  | 1.00  | 1        | 04/24/2019 12:34 | WG1271083 |
| cis-1,3-Dichloropropene        | U      |           | 0.0976 | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| trans-1,3-Dichloropropene      | U      |           | 0.222  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| trans-1,4-Dichloro-2-butene    | U      |           | 0.257  | 5.00  | 1        | 04/24/2019 12:34 | WG1271083 |
| 2,2-Dichloropropane            | U      |           | 0.0929 | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| Di-isopropyl ether             | U      |           | 0.0924 | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| Ethylbenzene                   | U      |           | 0.158  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| Hexachloro-1,3-butadiene       | U      |           | 0.157  | 1.00  | 1        | 04/24/2019 12:34 | WG1271083 |
| 2-Hexanone                     | U      |           | 0.757  | 5.00  | 1        | 04/24/2019 12:34 | WG1271083 |
| n-Hexane                       | U      |           | 0.305  | 5.00  | 1        | 04/24/2019 12:34 | WG1271083 |
| Iodomethane                    | U      |           | 0.377  | 10.0  | 1        | 04/24/2019 12:34 | WG1271083 |
| Isopropylbenzene               | U      |           | 0.126  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| p-Isopropyltoluene             | U      |           | 0.138  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| 2-Butanone (MEK)               | U      |           | 1.28   | 5.00  | 1        | 04/24/2019 12:34 | WG1271083 |
| Methylene Chloride             | U      |           | 1.07   | 2.50  | 1        | 04/24/2019 12:34 | WG1271083 |
| 4-Methyl-2-pentanone (MIBK)    | U      |           | 0.823  | 5.00  | 1        | 04/24/2019 12:34 | WG1271083 |
| Methyl tert-butyl ether        | U      |           | 0.102  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| Naphthalene                    | U      |           | 0.174  | 2.50  | 1        | 04/24/2019 12:34 | WG1271083 |
| n-Propylbenzene                | U      |           | 0.162  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| Styrene                        | U      |           | 0.117  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| 1,1,1,2-Tetrachloroethane      | U      |           | 0.120  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| 1,1,2,2-Tetrachloroethane      | U      |           | 0.130  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| 1,1,2-Trichlorotrifluoroethane | U      |           | 0.164  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| Tetrachloroethene              | U      |           | 0.199  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| Toluene                        | U      |           | 0.412  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| 1,2,3-Trichlorobenzene         | U      |           | 0.164  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| 1,2,4-Trichlorobenzene         | U      |           | 0.355  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| 1,1,1-Trichloroethane          | U      |           | 0.0940 | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| 1,1,2-Trichloroethane          | U      |           | 0.186  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| Trichloroethene                | U      |           | 0.153  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| Trichlorofluoromethane         | U      | UJ JO     | 0.130  | 2.50  | 1        | 04/24/2019 12:34 | WG1271083 |
| 1,2,3-Trichloropropane         | U      |           | 0.247  | 2.50  | 1        | 04/24/2019 12:34 | WG1271083 |
| 1,2,4-Trimethylbenzene         | U      |           | 0.123  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| 1,2,3-Trimethylbenzene         | U      |           | 0.0739 | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |
| 1,3,5-Trimethylbenzene         | U      |           | 0.124  | 0.500 | 1        | 04/24/2019 12:34 | WG1271083 |

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

JC 5/7/19



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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              | UJ JO     | 0.645       | 5.00        | 1        | 04/24/2019 12:34        | <a href="#">WG1271083</a> |
| Vinyl chloride            | U              | UJ JO     | 0.118       | 0.500       | 1        | 04/24/2019 12:34        | <a href="#">WG1271083</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/24/2019 12:34        | <a href="#">WG1271083</a> |
| (S) Toluene-d8            | 101            |           |             | 80.0-120    |          | 04/24/2019 12:34        | <a href="#">WG1271083</a> |
| (S) 4-Bromofluorobenzene  | 106            |           |             | 77.0-126    |          | 04/24/2019 12:34        | <a href="#">WG1271083</a> |
| (S) 1,2-Dichloroethane-d4 | 91.9           |           |             | 70.0-130    |          | 04/24/2019 12:34        | <a href="#">WG1271083</a> |

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

JC 5/7/19



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

| Analyte                     | Result | Qualifier | MDL    | RDL   | Dilution | Analysis                                      | Batch   |
|-----------------------------|--------|-----------|--------|-------|----------|---|---|
|                             | ug/l   |           | ug/l   | ug/l  |          | date / time                                   |   |
| Acetone                     | 1.91   | J         | J JO   | 1.05  | 25.0     | 1   | 04/24/2019 12:54<br><a href="#">WG1271083</a> |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| Benzene                     | U      |           | 0.0896 | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| Bromomethane                | U      | UJ        | JO     | 0.157 | 2.50     | 1   | 04/24/2019 12:54<br><a href="#">WG1271083</a> |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| Chloroethane                | U      | UJ        | JO     | 0.141 | 2.50     | 1   | 04/24/2019 12:54<br><a href="#">WG1271083</a> |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| Chloromethane               | U      |           | 0.153  | 1.25  | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| 1,1-Dichloroethane          | U      |           | 0.114  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| 1,1-Dichloroethene          | U      |           | 0.188  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| cis-1,2-Dichloroethene      | U      |           | 0.0933 | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| trans-1,2-Dichloroethene    | U      |           | 0.152  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| Di-isopropyl ether          | U      |           | 0.0924 | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| Methylene Chloride          | U      |           | 1.07   | 2.50  | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| 4-Methyl-2-pentanone (MIBK) | U      |           | 0.823  | 5.00  | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| Methyl tert-butyl ether     | U      |           | 0.102  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| Naphthalene                 | 0.282  | J         | J      | 0.174 | 2.50     | 1   | 04/24/2019 12:54<br><a href="#">WG1271083</a> |
| n-Propylbenzene             | U      |           | 0.162  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| Styrene                     | U      |           | 0.117  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| 1,1,1,2-Tetrachloroethane   | U      |           | 0.120  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |
| 1,1,2,2-Tetrachloroethane   | U      |           | 0.130  | 0.500 | 1        | 04/24/2019 12:54<br><a href="#">WG1271083</a> |   |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/7/19



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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| Vinyl acetate                  | U              | UJ JO     | 0.645       | 5.00        | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| Vinyl chloride                 | U              | UJ JO     | 0.118       | 0.500       | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| (S) Toluene-d8                 | 97.2           |           |             | 80.0-120    |          | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| (S) 4-Bromofluorobenzene       | 104            |           |             | 77.0-126    |          | 04/24/2019 12:54        | <a href="#">WG1271083</a> |
| (S) 1,2-Dichloroethane-d4      | 93.4           |           |             | 70.0-130    |          | 04/24/2019 12:54        | <a href="#">WG1271083</a> |

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

JC 5/7/19



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        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Benzene                     | 1.05   |           | 0.0896 | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Bromomethane                | U      | UJ JO     | 0.157  | 2.50  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Chloroethane                | U      | UJ JO     | 0.141  | 2.50  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Chloromethane               | U      |           | 0.153  | 1.25  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,1-Dichloroethane          | U      |           | 0.114  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,1-Dichloroethene          | U      |           | 0.188  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| cis-1,2-Dichloroethene      | 11.5   |           | 0.0933 | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| trans-1,2-Dichloroethene    | U      |           | 0.152  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Di-isopropyl ether          | 0.217  | J J       | 0.0924 | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Methylene Chloride          | U      |           | 1.07   | 2.50  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 4-Methyl-2-pentanone (MIBK) | U      |           | 0.823  | 5.00  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Methyl tert-butyl ether     | 0.154  | J J       | 0.102  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Naphthalene                 | U      |           | 0.174  | 2.50  | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| n-Propylbenzene             | U      |           | 0.162  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| Styrene                     | U      |           | 0.117  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,1,1,2-Tetrachloroethane   | U      |           | 0.120  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |
| 1,1,2,2-Tetrachloroethane   | U      |           | 0.130  | 0.500 | 1        | 04/24/2019 13:14 | <a href="#">WG1271083</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/7/19



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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| Vinyl acetate                  | U              | UJ JO     | 0.645       | 5.00        | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| Vinyl chloride                 | 57.7           | J JO      | 0.118       | 0.500       | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| (S) Toluene-d8                 | 99.6           |           |             | 80.0-120    |          | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| (S) 4-Bromofluorobenzene       | 105            |           |             | 77.0-126    |          | 04/24/2019 13:14        | <a href="#">WG1271083</a> |
| (S) 1,2-Dichloroethane-d4      | 94.4           |           |             | 70.0-130    |          | 04/24/2019 13:14        | <a href="#">WG1271083</a> |

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

JC 5/7/19



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                     | 1.80   | J JO      | 1.05   | 25.0  | 1        | 04/24/2019 13:34 | WG1271083 |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 04/24/2019 13:34 | WG1271083 |
| Benzene                     | U      |           | 0.0896 | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Bromomethane                | U      | UJ JO     | 0.157  | 2.50  | 1        | 04/24/2019 13:34 | WG1271083 |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Chloroethane                | U      | UJ JO     | 0.141  | 2.50  | 1        | 04/24/2019 13:34 | WG1271083 |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Chloromethane               | U      |           | 0.153  | 1.25  | 1        | 04/24/2019 13:34 | WG1271083 |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,1-Dichloroethane          | U      |           | 0.114  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,1-Dichloroethene          | U      |           | 0.188  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| cis-1,2-Dichloroethene      | 10.8   |           | 0.0933 | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| trans-1,2-Dichloroethene    | U      |           | 0.152  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 04/24/2019 13:34 | WG1271083 |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 04/24/2019 13:34 | WG1271083 |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Di-isopropyl ether          | U      |           | 0.0924 | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 04/24/2019 13:34 | WG1271083 |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 04/24/2019 13:34 | WG1271083 |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 04/24/2019 13:34 | WG1271083 |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 04/24/2019 13:34 | WG1271083 |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 04/24/2019 13:34 | WG1271083 |
| Methylene Chloride          | U      |           | 1.07   | 2.50  | 1        | 04/24/2019 13:34 | WG1271083 |
| 4-Methyl-2-pentanone (MIBK) | U      |           | 0.823  | 5.00  | 1        | 04/24/2019 13:34 | WG1271083 |
| Methyl tert-butyl ether     | U      |           | 0.102  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Naphthalene                 | U      |           | 0.174  | 2.50  | 1        | 04/24/2019 13:34 | WG1271083 |
| n-Propylbenzene             | U      |           | 0.162  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| Styrene                     | U      |           | 0.117  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,1,1,2-Tetrachloroethane   | U      |           | 0.120  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |
| 1,1,2,2-Tetrachloroethane   | U      |           | 0.130  | 0.500 | 1        | 04/24/2019 13:34 | WG1271083 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/7/19



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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| Vinyl acetate                  | U              | UJ JO     | 0.645       | 5.00        | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| Vinyl chloride                 | 0.195          | J JJJO    | 0.118       | 0.500       | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| (S) Toluene-d8                 | 99.2           |           |             | 80.0-120    |          | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| (S) 4-Bromofluorobenzene       | 104            |           |             | 77.0-126    |          | 04/24/2019 13:34        | <a href="#">WG1271083</a> |
| (S) 1,2-Dichloroethane-d4      | 92.9           |           |             | 70.0-130    |          | 04/24/2019 13:34        | <a href="#">WG1271083</a> |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
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- 6 Qc
- 7 Gl
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- 9 Sc

JC 5/7/19





Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
| Alkalinity | 82900  |           | 2710 | 20000 | 1        | 04/29/2019 16:09 | <a href="#">WG1273424</a> |

Sample Narrative:

L1091511-05 WG1273424: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
| Chloride | 7090   |           | 51.9 | 1000 | 1        | 04/23/2019 18:20 | <a href="#">WG1270336</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/23/2019 18:20 | <a href="#">WG1270336</a> |
| Sulfate  | 7650   |           | 77.4 | 5000 | 1        | 04/23/2019 18:20 | <a href="#">WG1270336</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|-----|------|----------|------------------|---------------------------|
| TOC (Total Organic Carbon) | 6040   |           | 102 | 1000 | 1        | 04/23/2019 23:04 | <a href="#">WG1270623</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|-------|------|----------|------------------|---------------------------|
| Iron      | 4900   |           | 75.0  | 500  | 5        | 05/01/2019 19:44 | <a href="#">WG1271163</a> |
| Manganese | 177    |           | 0.250 | 5.00 | 1        | 05/01/2019 19:22 | <a href="#">WG1271163</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 04/24/2019 01:44 | <a href="#">WG1270830</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 110    |           |      | 78.0-120 |          | 04/24/2019 01:44 | <a href="#">WG1270830</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
| Methane | 281    |           | 0.287 | 0.678 | 1        | 04/24/2019 13:53 | <a href="#">WG1271117</a> |
| Ethane  | 1.12   | J J       | 0.296 | 1.29  | 1        | 04/24/2019 13:53 | <a href="#">WG1271117</a> |
| Ethene  | 1.13   | J J       | 0.422 | 1.27  | 1        | 04/24/2019 13:53 | <a href="#">WG1271117</a> |

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

| Analyte              | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch                     |
|----------------------|--------|-----------|--------|-------|----------|------------------|---------------------------|
| Acetone              | 2.37   | J J JO    | 1.05   | 25.0  | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |
| Benzene              | U      |           | 0.0896 | 0.500 | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |
| Bromomethane         | U      | UJ JO     | 0.157  | 2.50  | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |
| Carbon disulfide     | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 04/24/2019 13:54 | <a href="#">WG1271083</a> |

JC 5/7/19

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      |           |
| Chlorobenzene                  | U      |           | 0.140  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Chlorodibromomethane           | U      |           | 0.128  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Chloroethane                   | U      | UJ JO     | 0.141  | 2.50  | 1        | 04/24/2019 13:54 | WG1271083 |
| Chloroform                     | U      |           | 0.0860 | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Chloromethane                  | U      |           | 0.153  | 1.25  | 1        | 04/24/2019 13:54 | WG1271083 |
| 2-Chlorotoluene                | U      |           | 0.111  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 4-Chlorotoluene                | U      |           | 0.0972 | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,2-Dibromo-3-Chloropropane    | U      |           | 0.325  | 2.50  | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,2-Dibromoethane              | U      |           | 0.193  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Dibromomethane                 | U      |           | 0.117  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,2-Dichlorobenzene            | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,3-Dichlorobenzene            | U      |           | 0.130  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,4-Dichlorobenzene            | U      |           | 0.121  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Dichlorodifluoromethane        | U      |           | 0.127  | 2.50  | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,1-Dichloroethane             | U      |           | 0.114  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,2-Dichloroethane             | U      |           | 0.108  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,1-Dichloroethene             | U      |           | 0.188  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| cis-1,2-Dichloroethene         | U      |           | 0.0933 | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| trans-1,2-Dichloroethene       | U      |           | 0.152  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,2-Dichloropropane            | U      |           | 0.190  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,1-Dichloropropene            | U      |           | 0.128  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,3-Dichloropropane            | U      |           | 0.147  | 1.00  | 1        | 04/24/2019 13:54 | WG1271083 |
| cis-1,3-Dichloropropene        | U      |           | 0.0976 | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| trans-1,3-Dichloropropene      | U      |           | 0.222  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| trans-1,4-Dichloro-2-butene    | U      |           | 0.257  | 5.00  | 1        | 04/24/2019 13:54 | WG1271083 |
| 2,2-Dichloropropane            | U      |           | 0.0929 | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Di-isopropyl ether             | U      |           | 0.0924 | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Ethylbenzene                   | U      |           | 0.158  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Hexachloro-1,3-butadiene       | U      |           | 0.157  | 1.00  | 1        | 04/24/2019 13:54 | WG1271083 |
| 2-Hexanone                     | U      |           | 0.757  | 5.00  | 1        | 04/24/2019 13:54 | WG1271083 |
| n-Hexane                       | U      |           | 0.305  | 5.00  | 1        | 04/24/2019 13:54 | WG1271083 |
| Iodomethane                    | U      |           | 0.377  | 10.0  | 1        | 04/24/2019 13:54 | WG1271083 |
| Isopropylbenzene               | U      |           | 0.126  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| p-Isopropyltoluene             | U      |           | 0.138  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 2-Butanone (MEK)               | U      |           | 1.28   | 5.00  | 1        | 04/24/2019 13:54 | WG1271083 |
| Methylene Chloride             | U      |           | 1.07   | 2.50  | 1        | 04/24/2019 13:54 | WG1271083 |
| 4-Methyl-2-pentanone (MIBK)    | U      |           | 0.823  | 5.00  | 1        | 04/24/2019 13:54 | WG1271083 |
| Methyl tert-butyl ether        | U      |           | 0.102  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Naphthalene                    | U      |           | 0.174  | 2.50  | 1        | 04/24/2019 13:54 | WG1271083 |
| n-Propylbenzene                | U      |           | 0.162  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Styrene                        | U      |           | 0.117  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,1,1,2-Tetrachloroethane      | U      |           | 0.120  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,1,2,2-Tetrachloroethane      | U      |           | 0.130  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,1,2-Trichlorotrifluoroethane | U      |           | 0.164  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Tetrachloroethene              | U      |           | 0.199  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Toluene                        | U      |           | 0.412  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,2,3-Trichlorobenzene         | U      |           | 0.164  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,2,4-Trichlorobenzene         | U      |           | 0.355  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,1,1-Trichloroethane          | U      |           | 0.0940 | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,1,2-Trichloroethane          | U      |           | 0.186  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Trichloroethene                | U      |           | 0.153  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| Trichlorofluoromethane         | U      | UJ JO     | 0.130  | 2.50  | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,2,3-Trichloropropane         | U      |           | 0.247  | 2.50  | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,2,4-Trimethylbenzene         | U      |           | 0.123  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,2,3-Trimethylbenzene         | U      |           | 0.0739 | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |
| 1,3,5-Trimethylbenzene         | U      |           | 0.124  | 0.500 | 1        | 04/24/2019 13:54 | WG1271083 |

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

JC 5/7/19



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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              | UJ JO     | 0.645       | 5.00        | 1        | 04/24/2019 13:54        | <a href="#">WG1271083</a> |
| Vinyl chloride            | U              | UJ JO     | 0.118       | 0.500       | 1        | 04/24/2019 13:54        | <a href="#">WG1271083</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/24/2019 13:54        | <a href="#">WG1271083</a> |
| (S) Toluene-d8            | 99.6           |           |             | 80.0-120    |          | 04/24/2019 13:54        | <a href="#">WG1271083</a> |
| (S) 4-Bromofluorobenzene  | 105            |           |             | 77.0-126    |          | 04/24/2019 13:54        | <a href="#">WG1271083</a> |
| (S) 1,2-Dichloroethane-d4 | 95.4           |           |             | 70.0-130    |          | 04/24/2019 13:54        | <a href="#">WG1271083</a> |

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

JC 5/7/19



Collected date/time: 04/22/19 00:00

L1091511

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | U              |           | 31.6        | 100         | 1        | 04/23/2019 22:57        | <a href="#">WG1270830</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 111            |           |             | 78.0-120    |          | 04/23/2019 22:57        | <a href="#">WG1270830</a> |

1 Cp

2 Tc

3 Ss

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

| Analyte                     | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                               |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-------------------------------------|
| Acetone                     | U              |           | 1.05        | 25.0        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| Acrylonitrile               | U              |           | 0.873       | 5.00        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| Benzene                     | U              |           | 0.0896      | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| Bromobenzene                | U              |           | 0.133       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| Bromodichloromethane        | U              |           | 0.0800      | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| Bromochloromethane          | U              |           | 0.145       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| Bromoform                   | U              |           | 0.186       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| Bromomethane                | U              | UJ JO     | 0.157       | 2.50        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| n-Butylbenzene              | U              |           | 0.143       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| sec-Butylbenzene            | U              |           | 0.134       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| tert-Butylbenzene           | U              |           | 0.183       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| Carbon disulfide            | U              |           | 0.101       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| Carbon tetrachloride        | U              |           | 0.159       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| Chlorobenzene               | U              |           | 0.140       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| Chlorodibromomethane        | U              |           | 0.128       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| Chloroethane                | U              | UJ JO     | 0.141       | 2.50        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| Chloroform                  | U              |           | 0.0860      | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| Chloromethane               | U              |           | 0.153       | 1.25        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| 2-Chlorotoluene             | U              |           | 0.111       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| 4-Chlorotoluene             | U              |           | 0.0972      | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| 1,2-Dibromo-3-Chloropropane | U              |           | 0.325       | 2.50        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| 1,2-Dibromoethane           | U              |           | 0.193       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| Dibromomethane              | U              |           | 0.117       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| 1,2-Dichlorobenzene         | U              |           | 0.101       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| 1,3-Dichlorobenzene         | U              |           | 0.130       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| 1,4-Dichlorobenzene         | U              |           | 0.121       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| Dichlorodifluoromethane     | U              |           | 0.127       | 2.50        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| 1,1-Dichloroethane          | U              |           | 0.114       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| 1,2-Dichloroethane          | U              |           | 0.108       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| 1,1-Dichloroethene          | U              |           | 0.188       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| cis-1,2-Dichloroethene      | U              |           | 0.0933      | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| trans-1,2-Dichloroethene    | U              |           | 0.152       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| 1,2-Dichloropropane         | U              |           | 0.190       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| 1,1-Dichloropropene         | U              |           | 0.128       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| 1,3-Dichloropropane         | U              |           | 0.147       | 1.00        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| cis-1,3-Dichloropropene     | U              |           | 0.0976      | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| trans-1,3-Dichloropropene   | U              |           | 0.222       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| trans-1,4-Dichloro-2-butene | U              |           | 0.257       | 5.00        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| 2,2-Dichloropropane         | U              |           | 0.0929      | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a> JC 5/7/19 |
| Di-isopropyl ether          | U              |           | 0.0924      | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| Ethylbenzene                | U              |           | 0.158       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| Hexachloro-1,3-butadiene    | U              |           | 0.157       | 1.00        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| 2-Hexanone                  | U              |           | 0.757       | 5.00        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| n-Hexane                    | U              |           | 0.305       | 5.00        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| Iodomethane                 | U              |           | 0.377       | 10.0        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| Isopropylbenzene            | U              |           | 0.126       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| p-Isopropyltoluene          | U              |           | 0.138       | 0.500       | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |
| 2-Butanone (MEK)            | U              |           | 1.28        | 5.00        | 1        | 04/24/2019 12:14        | <a href="#">WG1271083</a>           |

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/22/19 00:00

L1091511

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

| Analyte                        | Result | Qualifier | MDL    | RDL      | Dilution | Analysis         | Batch                     |
|--------------------------------|--------|-----------|--------|----------|----------|------------------|---------------------------|
|                                | ug/l   |           | ug/l   | ug/l     |          | date / time      |                           |
| Methylene Chloride             | U      |           | 1.07   | 2.50     | 1        | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| 4-Methyl-2-pentanone (MIBK)    | U      |           | 0.823  | 5.00     | 1        | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| Methyl tert-butyl ether        | U      |           | 0.102  | 0.500    | 1        | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| Naphthalene                    | U      |           | 0.174  | 2.50     | 1        | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| n-Propylbenzene                | U      |           | 0.162  | 0.500    | 1        | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| Styrene                        | U      |           | 0.117  | 0.500    | 1        | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| 1,1,1,2-Tetrachloroethane      | U      |           | 0.120  | 0.500    | 1        | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| 1,1,2,2-Tetrachloroethane      | U      |           | 0.130  | 0.500    | 1        | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| 1,1,2-Trichlorotrifluoroethane | U      |           | 0.164  | 0.500    | 1        | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| Tetrachloroethene              | U      |           | 0.199  | 0.500    | 1        | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| Toluene                        | U      |           | 0.412  | 0.500    | 1        | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| 1,2,3-Trichlorobenzene         | U      |           | 0.164  | 0.500    | 1        | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| 1,2,4-Trichlorobenzene         | U      |           | 0.355  | 0.500    | 1        | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| 1,1,1-Trichloroethane          | U      |           | 0.0940 | 0.500    | 1        | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| 1,1,2-Trichloroethane          | U      |           | 0.186  | 0.500    | 1        | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| Trichloroethene                | U      |           | 0.153  | 0.500    | 1        | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| Trichlorofluoromethane         | U      | UJ JO     | 0.130  | 2.50     | 1        | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| 1,2,3-Trichloropropane         | U      |           | 0.247  | 2.50     | 1        | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| 1,2,4-Trimethylbenzene         | U      |           | 0.123  | 0.500    | 1        | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| 1,2,3-Trimethylbenzene         | U      |           | 0.0739 | 0.500    | 1        | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| 1,3,5-Trimethylbenzene         | U      |           | 0.124  | 0.500    | 1        | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| Vinyl acetate                  | U      | UJ JO     | 0.645  | 5.00     | 1        | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| Vinyl chloride                 | U      | UJ JO     | 0.118  | 0.500    | 1        | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| Xylenes, Total                 | U      |           | 0.316  | 1.50     | 1        | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| (S) Toluene-d8                 | 99.5   |           |        | 80.0-120 |          | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| (S) 4-Bromofluorobenzene       | 105    |           |        | 77.0-126 |          | 04/24/2019 12:14 | <a href="#">WG1271083</a> |
| (S) 1,2-Dichloroethane-d4      | 93.6   |           |        | 70.0-130 |          | 04/24/2019 12:14 | <a href="#">WG1271083</a> |

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

JC 5/7/19



Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|------------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                    | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH      | U      |           | 31.6 | 100      | 1        | 04/24/2019 02:08 | <a href="#">WG1270830</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 110    |           |      | 78.0-120 |          | 04/24/2019 02:08 | <a href="#">WG1270830</a> |

- 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        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| Benzene                     | U      |           | 0.0896 | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| Bromomethane                | U      | UJ JO     | 0.157  | 2.50  | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| Chloroethane                | U      | UJ JO     | 0.141  | 2.50  | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| Chloroform                  | 1.28   |           | 0.0860 | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| Chloromethane               | U      |           | 0.153  | 1.25  | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| 1,1-Dichloroethane          | U      |           | 0.114  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| 1,1-Dichloroethene          | U      |           | 0.188  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| cis-1,2-Dichloroethene      | U      |           | 0.0933 | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| trans-1,2-Dichloroethene    | U      |           | 0.152  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| Di-isopropyl ether          | U      |           | 0.0924 | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 04/24/2019 14:14 | <a href="#">WG1271083</a> |

JC 5/7/19



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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Tetrachloroethene              | 0.499          | J U       | 0.199       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Toluene                        | 0.428          | J U       | 0.412       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Trichloroethene                | 0.155          | J U       | 0.153       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Vinyl acetate                  | U              | UJ JO     | 0.645       | 5.00        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Vinyl chloride                 | U              | UJ JO     | 0.118       | 0.500       | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| (S) Toluene-d8                 | 99.5           |           |             | 80.0-120    |          | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| (S) 4-Bromofluorobenzene       | 104            |           |             | 77.0-126    |          | 04/24/2019 14:14        | <a href="#">WG1271083</a> |
| (S) 1,2-Dichloroethane-d4      | 94.6           |           |             | 70.0-130    |          | 04/24/2019 14:14        | <a href="#">WG1271083</a> |

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

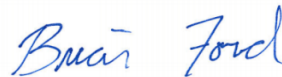
JC 5/7/19



## PES Environmental, Inc.- WA

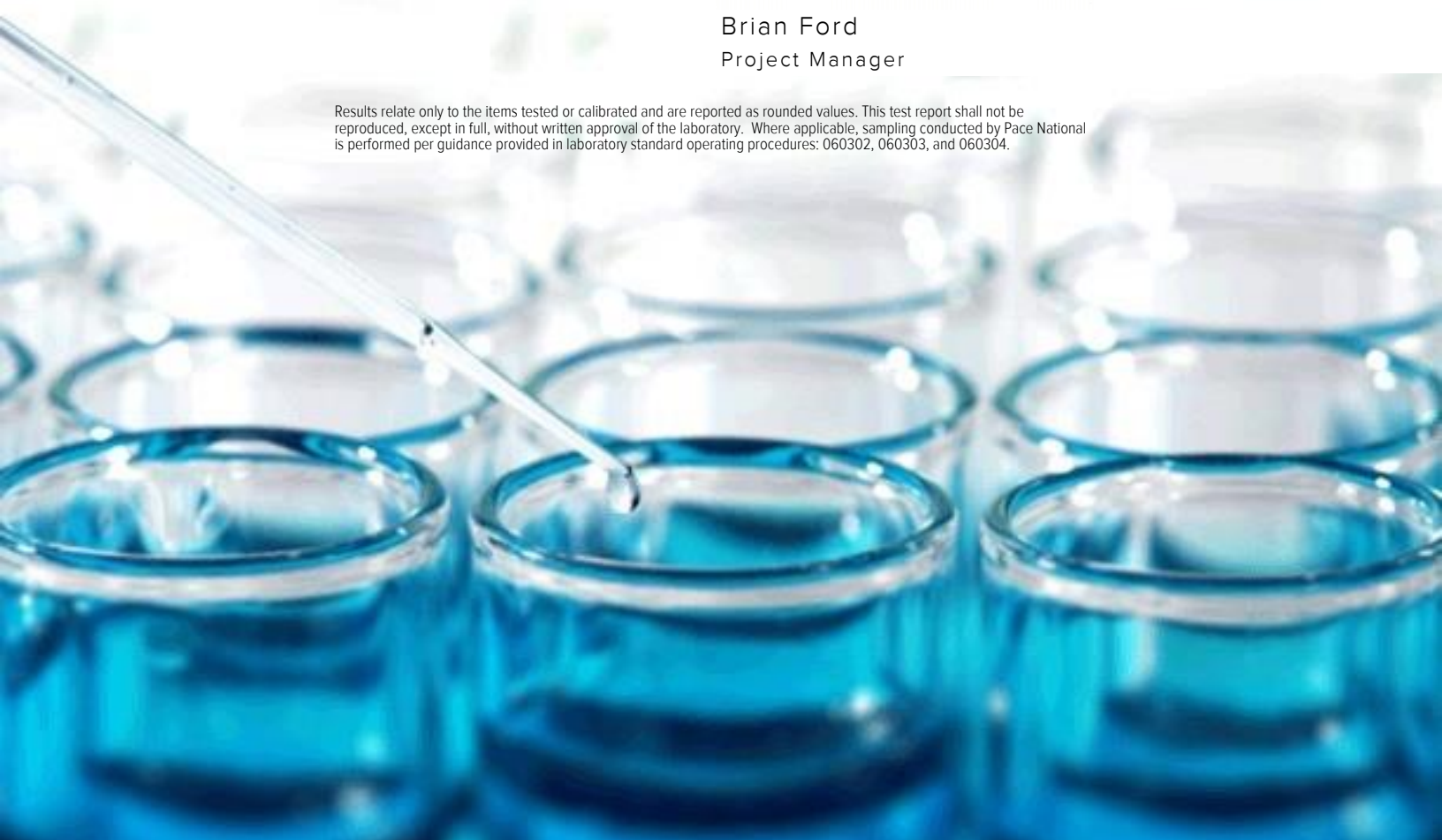
Sample Delivery Group: L1091936  
Samples Received: 04/24/2019  
Project Number: 1413.001.05.601  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

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.







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# SAMPLE SUMMARY



## MW103-042219 L1091936-01 GW

Collected by: KZ/BH  
 Collected date/time: 04/22/19 15:05  
 Received date/time: 04/24/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1271705 | 1        | 04/25/19 16:48        | 04/25/19 16:48     | BMB     | Mt. Juliet, TN |

1 Cp

2 Tc

## MW111-042219 L1091936-02 GW

Collected by: KZ/BH  
 Collected date/time: 04/22/19 15:05  
 Received date/time: 04/24/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1271705 | 1        | 04/25/19 17:08        | 04/25/19 17:08     | BMB     | Mt. Juliet, TN |

3 Ss

4 Cn

## MW104-042319 L1091936-03 GW

Collected by: KZ/BH  
 Collected date/time: 04/23/19 08:35  
 Received date/time: 04/24/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011                | WG1273424 | 1        | 04/29/19 17:35        | 04/29/19 17:35     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1271082 | 1        | 04/24/19 19:20        | 04/24/19 19:20     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                      | WG1271094 | 1        | 04/24/19 22:37        | 04/24/19 22:37     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1271169 | 5        | 04/26/19 14:47        | 05/07/19 00:32     | LD      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1271515 | 1        | 04/25/19 14:32        | 04/25/19 14:32     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1271298 | 1        | 04/26/19 13:42        | 04/26/19 13:42     | MEL     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1271083 | 1        | 04/24/19 18:16        | 04/24/19 18:16     | JCP     | Mt. Juliet, TN |

5 Sr

6 Qc

7 Gl

## MW105-042319 L1091936-04 GW

Collected by: KZ/BH  
 Collected date/time: 04/23/19 10:35  
 Received date/time: 04/24/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011                | WG1273424 | 1        | 04/29/19 17:43        | 04/29/19 17:43     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1271082 | 1        | 04/24/19 19:35        | 04/24/19 19:35     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                      | WG1271094 | 1        | 04/24/19 23:17        | 04/24/19 23:17     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1271169 | 5        | 04/26/19 14:47        | 05/07/19 00:37     | LD      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1271515 | 1        | 04/25/19 14:56        | 04/25/19 14:56     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1271298 | 1        | 04/26/19 13:45        | 04/26/19 13:45     | MEL     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1271083 | 1        | 04/24/19 18:36        | 04/24/19 18:36     | JCP     | Mt. Juliet, TN |

8 Al

9 Sc

## MW147-042319 L1091936-05 GW

Collected by: KZ/BH  
 Collected date/time: 04/23/19 14:00  
 Received date/time: 04/24/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011                | WG1273424 | 1        | 04/29/19 17:50        | 04/29/19 17:50     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1271082 | 1        | 04/24/19 19:49        | 04/24/19 19:49     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                      | WG1271094 | 1        | 04/24/19 23:34        | 04/24/19 23:34     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1271169 | 5        | 04/26/19 14:47        | 05/07/19 00:43     | LD      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1271515 | 1        | 04/25/19 15:20        | 04/25/19 15:20     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1271298 | 1        | 04/26/19 13:49        | 04/26/19 13:49     | MEL     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1271298 | 10       | 04/26/19 14:59        | 04/26/19 14:59     | MEL     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1271083 | 1        | 04/24/19 18:56        | 04/24/19 18:56     | JCP     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1272362 | 10       | 04/26/19 12:43        | 04/26/19 12:43     | ACG     | Mt. Juliet, TN |

# SAMPLE SUMMARY



TRIP BLANK-042319 L1091936-06 GW

Collected by: KZ/BH  
 Collected date/time: 04/23/19 00:00  
 Received date/time: 04/24/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1271515 | 1        | 04/25/19 12:32        | 04/25/19 12:32     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1271083 | 1        | 04/24/19 16:36        | 04/24/19 16:36     | JCP     | Mt. Juliet, TN |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> 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

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> 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                     | 1.66   | J J0 J3 J4 | 1.05   | 25.0  | 1        | 04/25/2019 16:48 | WG1271705 |
| Acrylonitrile               | U      |            | 0.873  | 5.00  | 1        | 04/25/2019 16:48 | WG1271705 |
| Benzene                     | U      |            | 0.0896 | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| Bromobenzene                | U      |            | 0.133  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| Bromodichloromethane        | U      |            | 0.0800 | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| Bromochloromethane          | U      |            | 0.145  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| Bromoform                   | U      |            | 0.186  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| Bromomethane                | U      | J0         | 0.157  | 2.50  | 1        | 04/25/2019 16:48 | WG1271705 |
| n-Butylbenzene              | U      |            | 0.143  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| sec-Butylbenzene            | U      |            | 0.134  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| tert-Butylbenzene           | U      |            | 0.183  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| Carbon disulfide            | U      |            | 0.101  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| Carbon tetrachloride        | U      |            | 0.159  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| Chlorobenzene               | U      |            | 0.140  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| Chlorodibromomethane        | U      |            | 0.128  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| Chloroethane                | U      | J0         | 0.141  | 2.50  | 1        | 04/25/2019 16:48 | WG1271705 |
| Chloroform                  | U      |            | 0.0860 | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| Chloromethane               | U      |            | 0.153  | 1.25  | 1        | 04/25/2019 16:48 | WG1271705 |
| 2-Chlorotoluene             | U      |            | 0.111  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| 4-Chlorotoluene             | U      |            | 0.0972 | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| 1,2-Dibromo-3-Chloropropane | U      |            | 0.325  | 2.50  | 1        | 04/25/2019 16:48 | WG1271705 |
| 1,2-Dibromoethane           | U      |            | 0.193  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| Dibromomethane              | U      |            | 0.117  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| 1,2-Dichlorobenzene         | U      |            | 0.101  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| 1,3-Dichlorobenzene         | U      |            | 0.130  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| 1,4-Dichlorobenzene         | U      |            | 0.121  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| Dichlorodifluoromethane     | U      |            | 0.127  | 2.50  | 1        | 04/25/2019 16:48 | WG1271705 |
| 1,1-Dichloroethane          | U      |            | 0.114  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| 1,2-Dichloroethane          | U      |            | 0.108  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| 1,1-Dichloroethene          | 1.22   |            | 0.188  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| cis-1,2-Dichloroethene      | 88.0   |            | 0.0933 | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| trans-1,2-Dichloroethene    | 0.209  | J          | 0.152  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| 1,2-Dichloropropane         | U      |            | 0.190  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| 1,1-Dichloropropene         | U      |            | 0.128  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| 1,3-Dichloropropane         | U      |            | 0.147  | 1.00  | 1        | 04/25/2019 16:48 | WG1271705 |
| cis-1,3-Dichloropropene     | U      |            | 0.0976 | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| trans-1,3-Dichloropropene   | U      |            | 0.222  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| trans-1,4-Dichloro-2-butene | U      |            | 0.257  | 5.00  | 1        | 04/25/2019 16:48 | WG1271705 |
| 2,2-Dichloropropane         | U      |            | 0.0929 | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| Di-isopropyl ether          | U      |            | 0.0924 | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| Ethylbenzene                | U      |            | 0.158  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| Hexachloro-1,3-butadiene    | U      |            | 0.157  | 1.00  | 1        | 04/25/2019 16:48 | WG1271705 |
| 2-Hexanone                  | U      |            | 0.757  | 5.00  | 1        | 04/25/2019 16:48 | WG1271705 |
| n-Hexane                    | U      |            | 0.305  | 5.00  | 1        | 04/25/2019 16:48 | WG1271705 |
| Iodomethane                 | U      |            | 0.377  | 10.0  | 1        | 04/25/2019 16:48 | WG1271705 |
| Isopropylbenzene            | U      |            | 0.126  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| p-Isopropyltoluene          | U      |            | 0.138  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| 2-Butanone (MEK)            | U      |            | 1.28   | 5.00  | 1        | 04/25/2019 16:48 | WG1271705 |
| Methylene Chloride          | U      |            | 1.07   | 2.50  | 1        | 04/25/2019 16:48 | WG1271705 |
| 4-Methyl-2-pentanone (MIBK) | U      |            | 0.823  | 5.00  | 1        | 04/25/2019 16:48 | WG1271705 |
| Methyl tert-butyl ether     | U      |            | 0.102  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| Naphthalene                 | U      |            | 0.174  | 2.50  | 1        | 04/25/2019 16:48 | WG1271705 |
| n-Propylbenzene             | U      |            | 0.162  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| Styrene                     | U      |            | 0.117  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| 1,1,1,2-Tetrachloroethane   | U      |            | 0.120  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |
| 1,1,2,2-Tetrachloroethane   | U      |            | 0.130  | 0.500 | 1        | 04/25/2019 16:48 | WG1271705 |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| Trichloroethene                | 3.09           |           | 0.153       | 0.500       | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| Vinyl acetate                  | U              |           | 0.645       | 5.00        | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| Vinyl chloride                 | 32.3           | <u>JO</u> | 0.118       | 0.500       | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| (S) Toluene-d8                 | 100            |           |             | 80.0-120    |          | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| (S) 4-Bromofluorobenzene       | 105            |           |             | 77.0-126    |          | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| (S) 1,2-Dichloroethane-d4      | 91.6           |           |             | 70.0-130    |          | 04/25/2019 16:48        | <a href="#">WG1271705</a> |

- 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                     | 1.17   | J J0 J3 J4 | 1.05   | 25.0  | 1        | 04/25/2019 17:08 | WG1271705 |
| Acrylonitrile               | U      |            | 0.873  | 5.00  | 1        | 04/25/2019 17:08 | WG1271705 |
| Benzene                     | U      |            | 0.0896 | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| Bromobenzene                | U      |            | 0.133  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| Bromodichloromethane        | U      |            | 0.0800 | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| Bromochloromethane          | U      |            | 0.145  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| Bromoform                   | U      |            | 0.186  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| Bromomethane                | U      | J0         | 0.157  | 2.50  | 1        | 04/25/2019 17:08 | WG1271705 |
| n-Butylbenzene              | U      |            | 0.143  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| sec-Butylbenzene            | U      |            | 0.134  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| tert-Butylbenzene           | U      |            | 0.183  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| Carbon disulfide            | U      |            | 0.101  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| Carbon tetrachloride        | U      |            | 0.159  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| Chlorobenzene               | U      |            | 0.140  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| Chlorodibromomethane        | U      |            | 0.128  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| Chloroethane                | 0.255  | J J0       | 0.141  | 2.50  | 1        | 04/25/2019 17:08 | WG1271705 |
| Chloroform                  | U      |            | 0.0860 | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| Chloromethane               | U      |            | 0.153  | 1.25  | 1        | 04/25/2019 17:08 | WG1271705 |
| 2-Chlorotoluene             | U      |            | 0.111  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| 4-Chlorotoluene             | U      |            | 0.0972 | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| 1,2-Dibromo-3-Chloropropane | U      |            | 0.325  | 2.50  | 1        | 04/25/2019 17:08 | WG1271705 |
| 1,2-Dibromoethane           | U      |            | 0.193  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| Dibromomethane              | U      |            | 0.117  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| 1,2-Dichlorobenzene         | U      |            | 0.101  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| 1,3-Dichlorobenzene         | U      |            | 0.130  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| 1,4-Dichlorobenzene         | U      |            | 0.121  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| Dichlorodifluoromethane     | U      |            | 0.127  | 2.50  | 1        | 04/25/2019 17:08 | WG1271705 |
| 1,1-Dichloroethane          | U      |            | 0.114  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| 1,2-Dichloroethane          | U      |            | 0.108  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| 1,1-Dichloroethene          | U      |            | 0.188  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| cis-1,2-Dichloroethene      | 3.18   |            | 0.0933 | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| trans-1,2-Dichloroethene    | U      |            | 0.152  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| 1,2-Dichloropropane         | U      |            | 0.190  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| 1,1-Dichloropropene         | U      |            | 0.128  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| 1,3-Dichloropropane         | U      |            | 0.147  | 1.00  | 1        | 04/25/2019 17:08 | WG1271705 |
| cis-1,3-Dichloropropene     | U      |            | 0.0976 | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| trans-1,3-Dichloropropene   | U      |            | 0.222  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| trans-1,4-Dichloro-2-butene | U      |            | 0.257  | 5.00  | 1        | 04/25/2019 17:08 | WG1271705 |
| 2,2-Dichloropropane         | U      |            | 0.0929 | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| Di-isopropyl ether          | U      |            | 0.0924 | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| Ethylbenzene                | U      |            | 0.158  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| Hexachloro-1,3-butadiene    | U      |            | 0.157  | 1.00  | 1        | 04/25/2019 17:08 | WG1271705 |
| 2-Hexanone                  | U      |            | 0.757  | 5.00  | 1        | 04/25/2019 17:08 | WG1271705 |
| n-Hexane                    | U      |            | 0.305  | 5.00  | 1        | 04/25/2019 17:08 | WG1271705 |
| Iodomethane                 | U      |            | 0.377  | 10.0  | 1        | 04/25/2019 17:08 | WG1271705 |
| Isopropylbenzene            | U      |            | 0.126  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| p-Isopropyltoluene          | U      |            | 0.138  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| 2-Butanone (MEK)            | U      |            | 1.28   | 5.00  | 1        | 04/25/2019 17:08 | WG1271705 |
| Methylene Chloride          | U      |            | 1.07   | 2.50  | 1        | 04/25/2019 17:08 | WG1271705 |
| 4-Methyl-2-pentanone (MIBK) | U      |            | 0.823  | 5.00  | 1        | 04/25/2019 17:08 | WG1271705 |
| Methyl tert-butyl ether     | U      |            | 0.102  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| Naphthalene                 | U      |            | 0.174  | 2.50  | 1        | 04/25/2019 17:08 | WG1271705 |
| n-Propylbenzene             | U      |            | 0.162  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| Styrene                     | U      |            | 0.117  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| 1,1,1,2-Tetrachloroethane   | U      |            | 0.120  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |
| 1,1,2,2-Tetrachloroethane   | U      |            | 0.130  | 0.500 | 1        | 04/25/2019 17:08 | WG1271705 |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| Vinyl acetate                  | U              |           | 0.645       | 5.00        | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| Vinyl chloride                 | 19.5           | <u>JO</u> | 0.118       | 0.500       | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| (S) Toluene-d8                 | 100            |           |             | 80.0-120    |          | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| (S) 4-Bromofluorobenzene       | 104            |           |             | 77.0-126    |          | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| (S) 1,2-Dichloroethane-d4      | 93.3           |           |             | 70.0-130    |          | 04/25/2019 17:08        | <a href="#">WG1271705</a> |

- 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 | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 196000 |           | 2710 | 20000 | 1        | 04/29/2019 17:35 | <a href="#">WG1273424</a> |

Sample Narrative:

L1091936-03 WG1273424: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 18600  |           | 51.9 | 1000 | 1        | 04/24/2019 19:20 | <a href="#">WG1271082</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/24/2019 19:20 | <a href="#">WG1271082</a> |
| Sulfate  | 5960   |           | 77.4 | 5000 | 1        | 04/24/2019 19:20 | <a href="#">WG1271082</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 5970   |           | 102  | 1000 | 1        | 04/24/2019 22:37 | <a href="#">WG1271094</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Iron      | 5030   |           | 75.0 | 500  | 5        | 05/07/2019 00:32 | <a href="#">WG1271169</a> |
| Manganese | 285    |           | 1.25 | 25.0 | 5        | 05/07/2019 00:32 | <a href="#">WG1271169</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | 174    |           | 31.6 | 100      | 1        | 04/25/2019 14:32 | <a href="#">WG1271515</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111    |           |      | 78.0-120 |          | 04/25/2019 14:32 | <a href="#">WG1271515</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 437    |           | 0.287 | 0.678 | 1        | 04/26/2019 13:42 | <a href="#">WG1271298</a> |
| Ethane  | 2.60   |           | 0.296 | 1.29  | 1        | 04/26/2019 13:42 | <a href="#">WG1271298</a> |
| Ethene  | 17.7   |           | 0.422 | 1.27  | 1        | 04/26/2019 13:42 | <a href="#">WG1271298</a> |

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              | 23.4   | J JO      | 1.05   | 25.0  | 1        | 04/24/2019 18:16 | <a href="#">WG1271083</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 04/24/2019 18:16 | <a href="#">WG1271083</a> |
| Benzene              | U      |           | 0.0896 | 0.500 | 1        | 04/24/2019 18:16 | <a href="#">WG1271083</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 04/24/2019 18:16 | <a href="#">WG1271083</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 04/24/2019 18:16 | <a href="#">WG1271083</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 04/24/2019 18:16 | <a href="#">WG1271083</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 04/24/2019 18:16 | <a href="#">WG1271083</a> |
| Bromomethane         | U      | JO        | 0.157  | 2.50  | 1        | 04/24/2019 18:16 | <a href="#">WG1271083</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 04/24/2019 18:16 | <a href="#">WG1271083</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 04/24/2019 18:16 | <a href="#">WG1271083</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 04/24/2019 18:16 | <a href="#">WG1271083</a> |
| Carbon disulfide     | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 18:16 | <a href="#">WG1271083</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 04/24/2019 18:16 | <a href="#">WG1271083</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/23/19 08:35

L1091936

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Chloroethane                   | U              | <u>JO</u> | 0.141       | 2.50        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,1-Dichloroethene             | 5.86           |           | 0.188       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| cis-1,2-Dichloroethene         | 162            |           | 0.0933      | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| trans-1,2-Dichloroethene       | 2.49           |           | 0.152       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 2-Hexanone                     | U              |           | 0.757       | 5.00        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 2-Butanone (MEK)               | 4.72           | <u>I</u>  | 1.28        | 5.00        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Tetrachloroethene              | 15.9           |           | 0.199       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Trichloroethene                | 56.9           |           | 0.153       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|----------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate                    | U              | <u>JO</u> | 0.645       | 5.00        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Vinyl chloride                   | 21.1           | <u>JO</u> | 0.118       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Xylenes, Total                   | U              |           | 0.316       | 1.50        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| <i>(S) Toluene-d8</i>            | 100            |           |             | 80.0-120    |          | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| <i>(S) 4-Bromofluorobenzene</i>  | 106            |           |             | 77.0-126    |          | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| <i>(S) 1,2-Dichloroethane-d4</i> | 92.0           |           |             | 70.0-130    |          | 04/24/2019 18:16        | <a href="#">WG1271083</a> |

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 | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 275000 |           | 2710 | 20000 | 1        | 04/29/2019 17:43 | <a href="#">WG1273424</a> |

Sample Narrative:

L1091936-04 WG1273424: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 37900  |           | 51.9 | 1000 | 1        | 04/24/2019 19:35 | <a href="#">WG1271082</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/24/2019 19:35 | <a href="#">WG1271082</a> |
| Sulfate  | 5810   |           | 77.4 | 5000 | 1        | 04/24/2019 19:35 | <a href="#">WG1271082</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 4060   |           | 102  | 1000 | 1        | 04/24/2019 23:17 | <a href="#">WG1271094</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Iron      | 5270   |           | 75.0 | 500  | 5        | 05/07/2019 00:37 | <a href="#">WG1271169</a> |
| Manganese | 893    |           | 1.25 | 25.0 | 5        | 05/07/2019 00:37 | <a href="#">WG1271169</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 04/25/2019 14:56 | <a href="#">WG1271515</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111    |           |      | 78.0-120 |          | 04/25/2019 14:56 | <a href="#">WG1271515</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 1660   |           | 0.287 | 0.678 | 1        | 04/26/2019 13:45 | <a href="#">WG1271298</a> |
| Ethane  | U      |           | 0.296 | 1.29  | 1        | 04/26/2019 13:45 | <a href="#">WG1271298</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 04/26/2019 13:45 | <a href="#">WG1271298</a> |

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              | 1.22   | J JO      | 1.05   | 25.0  | 1        | 04/24/2019 18:36 | <a href="#">WG1271083</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 04/24/2019 18:36 | <a href="#">WG1271083</a> |
| Benzene              | U      |           | 0.0896 | 0.500 | 1        | 04/24/2019 18:36 | <a href="#">WG1271083</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 04/24/2019 18:36 | <a href="#">WG1271083</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 04/24/2019 18:36 | <a href="#">WG1271083</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 04/24/2019 18:36 | <a href="#">WG1271083</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 04/24/2019 18:36 | <a href="#">WG1271083</a> |
| Bromomethane         | U      | JO        | 0.157  | 2.50  | 1        | 04/24/2019 18:36 | <a href="#">WG1271083</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 04/24/2019 18:36 | <a href="#">WG1271083</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 04/24/2019 18:36 | <a href="#">WG1271083</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 04/24/2019 18:36 | <a href="#">WG1271083</a> |
| Carbon disulfide     | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 18:36 | <a href="#">WG1271083</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 04/24/2019 18:36 | <a href="#">WG1271083</a> |

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      |           |
| Chlorobenzene                  | U      |           | 0.140  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| Chlorodibromomethane           | U      |           | 0.128  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| Chloroethane                   | U      | JO        | 0.141  | 2.50  | 1        | 04/24/2019 18:36 | WG1271083 |
| Chloroform                     | U      |           | 0.0860 | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| Chloromethane                  | U      |           | 0.153  | 1.25  | 1        | 04/24/2019 18:36 | WG1271083 |
| 2-Chlorotoluene                | U      |           | 0.111  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| 4-Chlorotoluene                | U      |           | 0.0972 | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| 1,2-Dibromo-3-Chloropropane    | U      |           | 0.325  | 2.50  | 1        | 04/24/2019 18:36 | WG1271083 |
| 1,2-Dibromoethane              | U      |           | 0.193  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| Dibromomethane                 | U      |           | 0.117  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| 1,2-Dichlorobenzene            | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| 1,3-Dichlorobenzene            | U      |           | 0.130  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| 1,4-Dichlorobenzene            | U      |           | 0.121  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| Dichlorodifluoromethane        | U      |           | 0.127  | 2.50  | 1        | 04/24/2019 18:36 | WG1271083 |
| 1,1-Dichloroethane             | U      |           | 0.114  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| 1,2-Dichloroethane             | U      |           | 0.108  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| 1,1-Dichloroethene             | U      |           | 0.188  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| cis-1,2-Dichloroethene         | 0.917  |           | 0.0933 | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| trans-1,2-Dichloroethene       | U      |           | 0.152  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| 1,2-Dichloropropane            | U      |           | 0.190  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| 1,1-Dichloropropene            | U      |           | 0.128  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| 1,3-Dichloropropane            | U      |           | 0.147  | 1.00  | 1        | 04/24/2019 18:36 | WG1271083 |
| cis-1,3-Dichloropropene        | U      |           | 0.0976 | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| trans-1,3-Dichloropropene      | U      |           | 0.222  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| trans-1,4-Dichloro-2-butene    | U      |           | 0.257  | 5.00  | 1        | 04/24/2019 18:36 | WG1271083 |
| 2,2-Dichloropropane            | U      |           | 0.0929 | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| Di-isopropyl ether             | U      |           | 0.0924 | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| Ethylbenzene                   | U      |           | 0.158  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| Hexachloro-1,3-butadiene       | U      |           | 0.157  | 1.00  | 1        | 04/24/2019 18:36 | WG1271083 |
| 2-Hexanone                     | U      |           | 0.757  | 5.00  | 1        | 04/24/2019 18:36 | WG1271083 |
| n-Hexane                       | U      |           | 0.305  | 5.00  | 1        | 04/24/2019 18:36 | WG1271083 |
| Iodomethane                    | U      |           | 0.377  | 10.0  | 1        | 04/24/2019 18:36 | WG1271083 |
| Isopropylbenzene               | U      |           | 0.126  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| p-Isopropyltoluene             | U      |           | 0.138  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| 2-Butanone (MEK)               | U      |           | 1.28   | 5.00  | 1        | 04/24/2019 18:36 | WG1271083 |
| Methylene Chloride             | U      |           | 1.07   | 2.50  | 1        | 04/24/2019 18:36 | WG1271083 |
| 4-Methyl-2-pentanone (MIBK)    | U      |           | 0.823  | 5.00  | 1        | 04/24/2019 18:36 | WG1271083 |
| Methyl tert-butyl ether        | U      |           | 0.102  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| Naphthalene                    | U      |           | 0.174  | 2.50  | 1        | 04/24/2019 18:36 | WG1271083 |
| n-Propylbenzene                | U      |           | 0.162  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| Styrene                        | U      |           | 0.117  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| 1,1,1,2-Tetrachloroethane      | U      |           | 0.120  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| 1,1,2,2-Tetrachloroethane      | U      |           | 0.130  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| 1,1,2-Trichlorotrifluoroethane | U      |           | 0.164  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| Tetrachloroethene              | U      |           | 0.199  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| Toluene                        | U      |           | 0.412  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| 1,2,3-Trichlorobenzene         | U      |           | 0.164  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| 1,2,4-Trichlorobenzene         | U      |           | 0.355  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| 1,1,1-Trichloroethane          | U      |           | 0.0940 | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| 1,1,2-Trichloroethane          | U      |           | 0.186  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| Trichloroethene                | U      |           | 0.153  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| Trichlorofluoromethane         | U      | JO        | 0.130  | 2.50  | 1        | 04/24/2019 18:36 | WG1271083 |
| 1,2,3-Trichloropropane         | U      |           | 0.247  | 2.50  | 1        | 04/24/2019 18:36 | WG1271083 |
| 1,2,4-Trimethylbenzene         | U      |           | 0.123  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| 1,2,3-Trimethylbenzene         | U      |           | 0.0739 | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |
| 1,3,5-Trimethylbenzene         | U      |           | 0.124  | 0.500 | 1        | 04/24/2019 18:36 | WG1271083 |

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<br>ug/l | Qualifier  | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|----------------------------------|----------------|------------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate                    | U              | <u>JO</u>  | 0.645       | 5.00        | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| Vinyl chloride                   | 0.238          | <u>JJO</u> | 0.118       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| Xylenes, Total                   | U              |            | 0.316       | 1.50        | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| <i>(S) Toluene-d8</i>            | 101            |            |             | 80.0-120    |          | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| <i>(S) 4-Bromofluorobenzene</i>  | 105            |            |             | 77.0-126    |          | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| <i>(S) 1,2-Dichloroethane-d4</i> | 93.1           |            |             | 70.0-130    |          | 04/24/2019 18:36        | <a href="#">WG1271083</a> |

- 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 | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 346000 |           | 2710 | 20000 | 1        | 04/29/2019 17:50 | <a href="#">WG1273424</a> |

Sample Narrative:

L1091936-05 WG1273424: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 26900  |           | 51.9 | 1000 | 1        | 04/24/2019 19:49 | <a href="#">WG1271082</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/24/2019 19:49 | <a href="#">WG1271082</a> |
| Sulfate  | 28100  |           | 77.4 | 5000 | 1        | 04/24/2019 19:49 | <a href="#">WG1271082</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 13700  |           | 102  | 1000 | 1        | 04/24/2019 23:34 | <a href="#">WG1271094</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Iron      | 4390   |           | 75.0 | 500  | 5        | 05/07/2019 00:43 | <a href="#">WG1271169</a> |
| Manganese | 787    |           | 1.25 | 25.0 | 5        | 05/07/2019 00:43 | <a href="#">WG1271169</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | 139    |           | 31.6 | 100      | 1        | 04/25/2019 15:20 | <a href="#">WG1271515</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111    |           |      | 78.0-120 |          | 04/25/2019 15:20 | <a href="#">WG1271515</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Methane | 8110   |           | 2.87  | 6.78 | 10       | 04/26/2019 14:59 | <a href="#">WG1271298</a> |
| Ethane  | U      |           | 0.296 | 1.29 | 1        | 04/26/2019 13:49 | <a href="#">WG1271298</a> |
| Ethene  | 158    |           | 0.422 | 1.27 | 1        | 04/26/2019 13:49 | <a href="#">WG1271298</a> |

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

| Analyte              | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch                     |
|----------------------|--------|-----------|--------|-------|----------|------------------|---------------------------|
|                      | ug/l   |           | ug/l   | ug/l  |          | date / time      |                           |
| Acetone              | 1.91   | J JO      | 1.05   | 25.0  | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |
| Benzene              | U      |           | 0.0896 | 0.500 | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |
| Bromomethane         | U      | JO        | 0.157  | 2.50  | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |
| Carbon disulfide     | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |

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



Collected date/time: 04/23/19 14:00

L1091936

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Chloroethane                   | U              | <u>JO</u> | 0.141       | 2.50        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,1-Dichloroethene             | 1.75           |           | 0.188       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| cis-1,2-Dichloroethene         | 322            |           | 0.933       | 5.00        | 10       | 04/26/2019 12:43        | <a href="#">WG1272362</a> |
| trans-1,2-Dichloroethene       | 1.47           |           | 0.152       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 2-Hexanone                     | U              |           | 0.757       | 5.00        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Trichloroethene                | 5.13           |           | 0.153       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              | <u>JO</u> | 0.645       | 5.00        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Vinyl chloride            | 499            |           | 1.18        | 5.00        | 10       | 04/26/2019 12:43        | <a href="#">WG1272362</a> |
| Xylenes, Total            | U              | <u>JO</u> | 0.316       | 1.50        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| (S) Toluene-d8            | 100            |           |             | 80.0-120    |          | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| (S) Toluene-d8            | 98.8           |           |             | 80.0-120    |          | 04/26/2019 12:43        | <a href="#">WG1272362</a> |
| (S) 4-Bromofluorobenzene  | 105            |           |             | 77.0-126    |          | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| (S) 4-Bromofluorobenzene  | 99.9           |           |             | 77.0-126    |          | 04/26/2019 12:43        | <a href="#">WG1272362</a> |
| (S) 1,2-Dichloroethane-d4 | 94.2           |           |             | 70.0-130    |          | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| (S) 1,2-Dichloroethane-d4 | 89.2           |           |             | 70.0-130    |          | 04/26/2019 12:43        | <a href="#">WG1272362</a> |

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



Collected date/time: 04/23/19 00:00

L1091936

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | U              |           | 31.6        | 100         | 1        | 04/25/2019 12:32        | <a href="#">WG1271515</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 112            |           |             | 78.0-120    |          | 04/25/2019 12:32        | <a href="#">WG1271515</a> |

1 Cp

2 Tc

3 Ss

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

| Analyte                     | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | U              |           | 1.05        | 25.0        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Acrylonitrile               | U              |           | 0.873       | 5.00        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Benzene                     | U              |           | 0.0896      | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Bromobenzene                | U              |           | 0.133       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Bromodichloromethane        | U              |           | 0.0800      | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Bromochloromethane          | U              |           | 0.145       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Bromoform                   | U              |           | 0.186       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Bromomethane                | U              | <u>JO</u> | 0.157       | 2.50        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| n-Butylbenzene              | U              |           | 0.143       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| sec-Butylbenzene            | U              |           | 0.134       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| tert-Butylbenzene           | U              |           | 0.183       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Carbon disulfide            | U              |           | 0.101       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Carbon tetrachloride        | U              |           | 0.159       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Chlorobenzene               | U              |           | 0.140       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Chlorodibromomethane        | U              |           | 0.128       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Chloroethane                | U              | <u>JO</u> | 0.141       | 2.50        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Chloroform                  | U              |           | 0.0860      | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Chloromethane               | U              |           | 0.153       | 1.25        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 2-Chlorotoluene             | U              |           | 0.111       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 4-Chlorotoluene             | U              |           | 0.0972      | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,2-Dibromo-3-Chloropropane | U              |           | 0.325       | 2.50        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,2-Dibromoethane           | U              |           | 0.193       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Dibromomethane              | U              |           | 0.117       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,2-Dichlorobenzene         | U              |           | 0.101       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,3-Dichlorobenzene         | U              |           | 0.130       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,4-Dichlorobenzene         | U              |           | 0.121       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Dichlorodifluoromethane     | U              |           | 0.127       | 2.50        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,1-Dichloroethane          | U              |           | 0.114       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,2-Dichloroethane          | U              |           | 0.108       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,1-Dichloroethene          | U              |           | 0.188       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| cis-1,2-Dichloroethene      | U              |           | 0.0933      | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| trans-1,2-Dichloroethene    | U              |           | 0.152       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,2-Dichloropropane         | U              |           | 0.190       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,1-Dichloropropene         | U              |           | 0.128       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,3-Dichloropropane         | U              |           | 0.147       | 1.00        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| cis-1,3-Dichloropropene     | U              |           | 0.0976      | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| trans-1,3-Dichloropropene   | U              |           | 0.222       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| trans-1,4-Dichloro-2-butene | U              |           | 0.257       | 5.00        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 2,2-Dichloropropane         | U              |           | 0.0929      | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Di-isopropyl ether          | U              |           | 0.0924      | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Ethylbenzene                | U              |           | 0.158       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Hexachloro-1,3-butadiene    | U              |           | 0.157       | 1.00        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 2-Hexanone                  | U              |           | 0.757       | 5.00        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| n-Hexane                    | U              |           | 0.305       | 5.00        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Iodomethane                 | U              |           | 0.377       | 10.0        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Isopropylbenzene            | U              |           | 0.126       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| p-Isopropyltoluene          | U              |           | 0.138       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 2-Butanone (MEK)            | U              |           | 1.28        | 5.00        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/23/19 00:00

L1091936

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Vinyl acetate                  | U              | <u>JO</u> | 0.645       | 5.00        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Vinyl chloride                 | U              | <u>JO</u> | 0.118       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| (S) Toluene-d8                 | 100            |           |             | 80.0-120    |          | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| (S) 4-Bromofluorobenzene       | 105            |           |             | 77.0-126    |          | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| (S) 1,2-Dichloroethane-d4      | 92.9           |           |             | 70.0-130    |          | 04/24/2019 16:36        | <a href="#">WG1271083</a> |

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



Method Blank (MB)

(MB) R3406609-1 04/29/19 15:19

| Analyte    | MB Result | MB Qualifier | MB MDL | MB RDL |
|------------|-----------|--------------|--------|--------|
| Alkalinity | 3140      | ↓            | 2710   | 20000  |

Sample Narrative:

BLANK: Endpoint pH 4.5

L1091051-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1091051-02 04/29/19 15:25 • (DUP) R3406609-3 04/29/19 15:33

| Analyte    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------|-----------------|------------|----------|---------|---------------|----------------|
| Alkalinity | 171000          | 172000     | 1        | 0.927   |               | 20             |

Sample Narrative:

OS: Endpoint pH 4.5 headspace  
DUP: Endpoint pH 4.5

L1091709-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1091709-05 04/29/19 18:19 • (DUP) R3406609-6 04/29/19 18:26

| Analyte    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------|-----------------|------------|----------|---------|---------------|----------------|
| Alkalinity | 1070000         | 1070000    | 1        | 0.269   |               | 20             |

Sample Narrative:

OS: Endpoint pH 4.5 headspace  
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3406609-5 04/29/19 16:32

| Analyte    | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|------------|--------------|------------|----------|-------------|---------------|
| Alkalinity | 100000       | 102000     | 102      | 85.0-115    |               |

Sample Narrative:

LCS: Endpoint pH 4.5

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3405147-1 04/24/19 16:57

| Analyte  | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------|-----------|--------------|--------|--------|
| Chloride | U         |              | 51.9   | 1000   |
| Nitrate  | 26.3      | J            | 22.7   | 100    |
| Sulfate  | U         |              | 77.4   | 5000   |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1091917-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1091917-03 04/24/19 18:23 • (DUP) R3405147-3 04/24/19 18:37

| Analyte  | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
| Chloride | 8410            | 8430       | 1        | 0.285   |               | 15             |
| Nitrate  | 893             | 900        | 1        | 0.714   |               | 15             |
| Sulfate  | 7530            | 7540       | 1        | 0.0770  |               | 15             |

L1091941-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1091941-04 04/24/19 21:44 • (DUP) R3405147-6 04/24/19 21:59

| Analyte  | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
| Chloride | U               | 0.000      | 1        | 0.000   |               | 15             |
| Nitrate  | U               | 0.000      | 1        | 0.000   |               | 15             |
| Sulfate  | U               | 0.000      | 1        | 0.000   |               | 15             |

Laboratory Control Sample (LCS)

(LCS) R3405147-2 04/24/19 17:12

| Analyte  | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------|--------------|------------|----------|-------------|---------------|
| Chloride | 40000        | 40200      | 101      | 80.0-120    |               |
| Nitrate  | 8000         | 8290       | 104      | 80.0-120    |               |
| Sulfate  | 40000        | 41100      | 103      | 80.0-120    |               |



L1091917-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1091917-03 04/24/19 18:23 • (MS) R3405147-4 04/24/19 18:51 • (MSD) R3405147-5 04/24/19 19:06

| Analyte  | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MSD Result<br>ug/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Chloride | 50000                | 8410                    | 58800             | 58300              | 101          | 99.7          | 1        | 80.0-120         |              |               | 0.943    | 15              |
| Nitrate  | 5000                 | 893                     | 5880              | 5830               | 99.6         | 98.7          | 1        | 80.0-120         |              |               | 0.777    | 15              |
| Sulfate  | 50000                | 7530                    | 57300             | 56700              | 99.5         | 98.4          | 1        | 80.0-120         |              |               | 0.931    | 15              |

L1091941-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1091941-04 04/24/19 21:44 • (MS) R3405147-7 04/24/19 22:13

| Analyte  | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MS Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier |
|----------|----------------------|-------------------------|-------------------|--------------|----------|------------------|--------------|
| Chloride | 50000                | U                       | 50700             | 101          | 1        | 80.0-120         |              |
| Nitrate  | 5000                 | U                       | 5050              | 101          | 1        | 80.0-120         |              |
| Sulfate  | 50000                | U                       | 50400             | 101          | 1        | 80.0-120         |              |

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



Method Blank (MB)

(MB) R3405168-1 04/24/19 13:38

| Analyte                    | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------------------|-----------|--------------|--------|--------|
| TOC (Total Organic Carbon) | 229       | ↓            | 102    | 1000   |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1091876-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1091876-03 04/24/19 18:04 • (DUP) R3405168-5 04/24/19 18:24

| Analyte                    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------------------------|-----------------|------------|----------|---------|---------------|----------------|
| TOC (Total Organic Carbon) | 9410            | 7860       | 1        | 18.1    |               | 20             |

L1091936-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1091936-03 04/24/19 22:37 • (DUP) R3405168-8 04/24/19 22:56

| Analyte                    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------------------------|-----------------|------------|----------|---------|---------------|----------------|
| TOC (Total Organic Carbon) | 5970            | 5780       | 1        | 3.10    |               | 20             |

Laboratory Control Sample (LCS)

(LCS) R3405168-2 04/24/19 14:14

| Analyte                    | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------------------------|--------------|------------|----------|-------------|---------------|
| TOC (Total Organic Carbon) | 75000        | 76900      | 102      | 85.0-115    |               |

L1091790-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1091790-03 04/24/19 15:28 • (MS) R3405168-3 04/24/19 15:44 • (MSD) R3405168-4 04/24/19 16:00

| Analyte                    | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD   | RPD Limits |
|----------------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| TOC (Total Organic Carbon) | 50000        | 1580            | 49600     | 49500      | 96.0    | 95.8     | 1        | 80.0-120    |              |               | 0.202 | 20         |

L1091908-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1091908-04 04/24/19 19:56 • (MS) R3405168-6 04/24/19 20:12 • (MSD) R3405168-7 04/24/19 20:27

| Analyte                    | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD   | RPD Limits |
|----------------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| TOC (Total Organic Carbon) | 50000        | 1230            | 52000     | 52500      | 101     | 102      | 1        | 80.0-120    |              |               | 0.919 | 20         |



Method Blank (MB)

(MB) R3408542-1 05/06/19 10:56

| Analyte   | MB Result | MB Qualifier | MB MDL | MB RDL |
|-----------|-----------|--------------|--------|--------|
| Iron      | U         |              | 15.0   | 100    |
| Manganese | U         |              | 0.250  | 5.00   |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

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

(LCS) R3408542-2 05/06/19 11:00 • (LCSD) R3408542-3 05/06/19 11:05

| Analyte   | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |
|-----------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| Iron      | 500          | 492        | 486         | 98.4     | 97.2      | 80.0-120    |               |                | 1.22 | 20         |
| Manganese | 50.0         | 48.2       | 49.8        | 96.4     | 99.5      | 80.0-120    |               |                | 3.23 | 20         |

<sup>5</sup>Sr

<sup>6</sup>Qc

L1091790-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1091790-01 05/06/19 11:09 • (MS) R3408542-5 05/06/19 11:18 • (MSD) R3408542-6 05/06/19 11:23

| Analyte   | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD   | RPD Limits |
|-----------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| Iron      | 500          | ND              | 544       | 548        | 96.5    | 97.4     | 1        | 75.0-125    |              |               | 0.780 | 20         |
| Manganese | 50.0         | 5.40            | 55.3      | 54.8       | 99.9    | 98.7     | 1        | 75.0-125    |              |               | 1.07  | 20         |

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc





Method Blank (MB)

(MB) R3405596-2 04/25/19 09:45

| Analyte                            | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| Gasoline Range<br>Organics-NWTPH   | U                 |              | 31.6           | 100            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 111               |              |                | 78.0-120       |

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3405596-1 04/25/19 08:57

| Analyte                            | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|----------------------|--------------------|---------------|------------------|---------------|
| Gasoline Range<br>Organics-NWTPH   | 5500                 | 5310               | 96.5          | 70.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                    | 103           | 78.0-120         |               |

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3405886-1 04/26/19 13:31

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------|-----------|--------------|--------|--------|
|         | ug/l      |              | ug/l   | 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

L1091915-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1091915-02 04/26/19 13:40 • (DUP) R3405886-2 04/26/19 14:13

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
|         | ug/l            | ug/l       |          | %       |               | %              |
| Methane | 248             | 245        | 1        | 1.48    |               | 20             |
| Ethane  | U               | 0.000      | 1        | 0.000   |               | 20             |
| Ethene  | U               | 0.000      | 1        | 0.000   |               | 20             |

L1091952-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1091952-01 04/26/19 14:46 • (DUP) R3405886-3 04/26/19 15:02

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
|         | 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) R3405886-4 04/26/19 15:04 • (LCSD) R3405886-5 04/26/19 15:10

| 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        | %        | %         | %           |               |                | %     | %          |
| Methane | 67.8         | 75.7       | 76.9        | 112      | 113       | 85.0-115    |               |                | 1.59  | 20         |
| Ethane  | 129          | 121        | 119         | 93.4     | 92.5      | 85.0-115    |               |                | 0.991 | 20         |
| Ethene  | 127          | 120        | 121         | 94.1     | 95.5      | 85.0-115    |               |                | 1.51  | 20         |



Method Blank (MB)

(MB) R3405761-3 04/24/19 10:19

| Analyte                     | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>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          |
| Carbon disulfide            | U                 |              | 0.101          | 0.500          |
| sec-Butylbenzene            | U                 |              | 0.134          | 0.500          |
| Carbon tetrachloride        | U                 |              | 0.159          | 0.500          |
| tert-Butylbenzene           | U                 |              | 0.183          | 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          |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3405761-3 04/24/19 10:19

| Analyte                        | MB Result | MB Qualifier | MB MDL | MB RDL   |
|--------------------------------|-----------|--------------|--------|----------|
|                                | ug/l      |              | ug/l   | ug/l     |
| Hexachloro-1,3-butadiene       | 0.275     | U            | 0.157  | 1.00     |
| 2-Hexanone                     | U         |              | 0.757  | 5.00     |
| n-Hexane                       | U         |              | 0.305  | 5.00     |
| Iodomethane                    | U         |              | 0.377  | 10.0     |
| Ethylbenzene                   | U         |              | 0.158  | 0.500    |
| 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     |
| Isopropylbenzene               | U         |              | 0.126  | 0.500    |
| Styrene                        | U         |              | 0.117  | 0.500    |
| 1,1,1,2-Tetrachloroethane      | U         |              | 0.120  | 0.500    |
| p-Isopropyltoluene             | U         |              | 0.138  | 0.500    |
| 1,1,2,2-Tetrachloroethane      | U         |              | 0.130  | 0.500    |
| 1,1,2-Trichlorotrifluoroethane | U         |              | 0.164  | 0.500    |
| Tetrachloroethene              | U         |              | 0.199  | 0.500    |
| 1,2,3-Trichlorobenzene         | U         |              | 0.164  | 0.500    |
| 1,2,4-Trichlorobenzene         | U         |              | 0.355  | 0.500    |
| Methyl tert-butyl ether        | U         |              | 0.102  | 0.500    |
| 1,1,1-Trichloroethane          | U         |              | 0.0940 | 0.500    |
| 1,1,2-Trichloroethane          | U         |              | 0.186  | 0.500    |
| Naphthalene                    | U         |              | 0.174  | 2.50     |
| Trichloroethene                | U         |              | 0.153  | 0.500    |
| Trichlorofluoromethane         | U         |              | 0.130  | 2.50     |
| 1,2,3-Trichloropropane         | U         |              | 0.247  | 2.50     |
| n-Propylbenzene                | U         |              | 0.162  | 0.500    |
| 1,2,3-Trimethylbenzene         | U         |              | 0.0739 | 0.500    |
| Vinyl acetate                  | U         |              | 0.645  | 5.00     |
| Vinyl chloride                 | U         |              | 0.118  | 0.500    |
| Toluene                        | U         |              | 0.412  | 0.500    |
| Xylenes, Total                 | U         |              | 0.316  | 1.50     |
| 1,2,4-Trimethylbenzene         | U         |              | 0.123  | 0.500    |
| 1,3,5-Trimethylbenzene         | U         |              | 0.124  | 0.500    |
| (S) Toluene-d8                 | 102       |              |        | 80.0-120 |
| (S) 4-Bromofluorobenzene       | 107       |              |        | 77.0-126 |
| (S) 1,2-Dichloroethane-d4      | 91.2      |              |        | 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) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3405761-1 04/24/19 09:19 • (LCSD) R3405761-2 04/24/19 09:39

| Analyte                     | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Acetone                     | 125                  | 156                | 148                 | 124           | 119            | 19.0-160         |               |                | 4.69     | 27              |
| Acrylonitrile               | 125                  | 150                | 158                 | 120           | 126            | 55.0-149         |               |                | 4.93     | 20              |
| Bromobenzene                | 25.0                 | 23.2               | 23.5                | 92.9          | 94.2           | 73.0-121         |               |                | 1.38     | 20              |
| Bromodichloromethane        | 25.0                 | 22.3               | 22.2                | 89.3          | 89.0           | 75.0-120         |               |                | 0.350    | 20              |
| Bromochloromethane          | 25.0                 | 23.7               | 23.6                | 94.9          | 94.5           | 76.0-122         |               |                | 0.414    | 20              |
| Bromoform                   | 25.0                 | 27.4               | 26.8                | 110           | 107            | 68.0-132         |               |                | 2.18     | 20              |
| Bromomethane                | 25.0                 | 17.9               | 17.6                | 71.5          | 70.3           | 10.0-160         |               |                | 1.67     | 25              |
| Carbon disulfide            | 25.0                 | 27.9               | 28.1                | 111           | 113            | 61.0-128         |               |                | 1.03     | 20              |
| Carbon tetrachloride        | 25.0                 | 23.3               | 23.4                | 93.1          | 93.6           | 68.0-126         |               |                | 0.508    | 20              |
| Chlorobenzene               | 25.0                 | 23.9               | 23.7                | 95.8          | 94.7           | 80.0-121         |               |                | 1.19     | 20              |
| Chlorodibromomethane        | 25.0                 | 24.3               | 23.9                | 97.1          | 95.6           | 77.0-125         |               |                | 1.64     | 20              |
| Chloroethane                | 25.0                 | 16.6               | 16.5                | 66.5          | 66.1           | 47.0-150         |               |                | 0.641    | 20              |
| Chloroform                  | 25.0                 | 21.9               | 21.9                | 87.7          | 87.7           | 73.0-120         |               |                | 0.0865   | 20              |
| Chloromethane               | 25.0                 | 25.8               | 26.7                | 103           | 107            | 41.0-142         |               |                | 3.31     | 20              |
| 2-Chlorotoluene             | 25.0                 | 22.1               | 23.1                | 88.3          | 92.4           | 76.0-123         |               |                | 4.55     | 20              |
| 4-Chlorotoluene             | 25.0                 | 22.5               | 23.3                | 90.2          | 93.0           | 75.0-122         |               |                | 3.15     | 20              |
| 1,2-Dibromo-3-Chloropropane | 25.0                 | 26.5               | 28.6                | 106           | 114            | 58.0-134         |               |                | 7.78     | 20              |
| 1,2-Dibromoethane           | 25.0                 | 23.7               | 23.5                | 94.9          | 94.0           | 80.0-122         |               |                | 1.05     | 20              |
| Dibromomethane              | 25.0                 | 22.8               | 22.7                | 91.2          | 90.7           | 80.0-120         |               |                | 0.460    | 20              |
| 1,2-Dichlorobenzene         | 25.0                 | 23.0               | 23.4                | 91.9          | 93.7           | 79.0-121         |               |                | 1.90     | 20              |
| 1,3-Dichlorobenzene         | 25.0                 | 22.6               | 23.1                | 90.4          | 92.5           | 79.0-120         |               |                | 2.30     | 20              |
| 1,4-Dichlorobenzene         | 25.0                 | 22.0               | 22.0                | 88.0          | 87.9           | 79.0-120         |               |                | 0.0272   | 20              |
| Dichlorodifluoromethane     | 25.0                 | 25.9               | 25.8                | 104           | 103            | 51.0-149         |               |                | 0.138    | 20              |
| 1,1-Dichloroethane          | 25.0                 | 24.4               | 24.7                | 97.4          | 98.8           | 70.0-126         |               |                | 1.36     | 20              |
| 1,2-Dichloroethane          | 25.0                 | 20.9               | 21.0                | 83.4          | 83.9           | 70.0-128         |               |                | 0.549    | 20              |
| 1,1-Dichloroethene          | 25.0                 | 24.6               | 24.4                | 98.3          | 97.6           | 71.0-124         |               |                | 0.735    | 20              |
| cis-1,2-Dichloroethene      | 25.0                 | 24.0               | 23.7                | 95.9          | 94.7           | 73.0-120         |               |                | 1.21     | 20              |
| Benzene                     | 25.0                 | 25.9               | 25.8                | 104           | 103            | 70.0-123         |               |                | 0.330    | 20              |
| trans-1,2-Dichloroethene    | 25.0                 | 24.2               | 24.7                | 96.8          | 98.9           | 73.0-120         |               |                | 2.14     | 20              |
| 1,2-Dichloropropane         | 25.0                 | 26.3               | 26.3                | 105           | 105            | 77.0-125         |               |                | 0.163    | 20              |
| 1,1-Dichloropropene         | 25.0                 | 24.3               | 24.2                | 97.0          | 96.7           | 74.0-126         |               |                | 0.352    | 20              |
| 1,3-Dichloropropane         | 25.0                 | 25.1               | 25.0                | 101           | 99.9           | 80.0-120         |               |                | 0.653    | 20              |
| cis-1,3-Dichloropropene     | 25.0                 | 23.5               | 23.1                | 93.8          | 92.5           | 80.0-123         |               |                | 1.45     | 20              |
| trans-1,3-Dichloropropene   | 25.0                 | 22.6               | 22.5                | 90.5          | 89.9           | 78.0-124         |               |                | 0.668    | 20              |
| trans-1,4-Dichloro-2-butene | 25.0                 | 20.8               | 21.7                | 83.3          | 86.9           | 33.0-144         |               |                | 4.23     | 20              |
| 2,2-Dichloropropane         | 25.0                 | 25.9               | 25.9                | 104           | 104            | 58.0-130         |               |                | 0.0126   | 20              |
| n-Butylbenzene              | 25.0                 | 21.5               | 21.8                | 85.9          | 87.4           | 73.0-125         |               |                | 1.72     | 20              |
| Di-isopropyl ether          | 25.0                 | 27.9               | 28.3                | 111           | 113            | 58.0-138         |               |                | 1.53     | 20              |
| sec-Butylbenzene            | 25.0                 | 22.4               | 23.0                | 89.5          | 91.9           | 75.0-125         |               |                | 2.67     | 20              |
| tert-Butylbenzene           | 25.0                 | 23.1               | 24.1                | 92.3          | 96.5           | 76.0-124         |               |                | 4.41     | 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) R3405761-1 04/24/19 09:19 • (LCSD) R3405761-2 04/24/19 09:39

| Analyte                        | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD<br>% | RPD Limits<br>% |
|--------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Hexachloro-1,3-butadiene       | 25.0                 | 27.6               | 29.3                | 110           | 117            | 54.0-138         |                      |                       | 6.19     | 20              |
| 2-Hexanone                     | 125                  | 146                | 148                 | 117           | 119            | 67.0-149         |                      |                       | 1.62     | 20              |
| n-Hexane                       | 25.0                 | 26.0               | 24.9                | 104           | 99.4           | 57.0-133         |                      |                       | 4.59     | 20              |
| Iodomethane                    | 125                  | 133                | 133                 | 106           | 106            | 33.0-147         |                      |                       | 0.179    | 26              |
| 2-Butanone (MEK)               | 125                  | 155                | 160                 | 124           | 128            | 44.0-160         |                      |                       | 3.27     | 20              |
| Methylene Chloride             | 25.0                 | 24.5               | 25.0                | 98.1          | 100            | 67.0-120         |                      |                       | 2.09     | 20              |
| 4-Methyl-2-pentanone (MIBK)    | 125                  | 143                | 145                 | 115           | 116            | 68.0-142         |                      |                       | 1.19     | 20              |
| Styrene                        | 25.0                 | 27.4               | 26.7                | 110           | 107            | 73.0-130         |                      |                       | 2.64     | 20              |
| 1,1,1,2-Tetrachloroethane      | 25.0                 | 24.1               | 24.1                | 96.3          | 96.5           | 75.0-125         |                      |                       | 0.203    | 20              |
| 1,1,2,2-Tetrachloroethane      | 25.0                 | 20.9               | 21.7                | 83.7          | 87.0           | 65.0-130         |                      |                       | 3.84     | 20              |
| 1,1,2-Trichlorotrifluoroethane | 25.0                 | 22.8               | 22.6                | 91.1          | 90.6           | 69.0-132         |                      |                       | 0.600    | 20              |
| Tetrachloroethene              | 25.0                 | 25.2               | 24.6                | 101           | 98.6           | 72.0-132         |                      |                       | 2.13     | 20              |
| 1,2,3-Trichlorobenzene         | 25.0                 | 23.4               | 25.1                | 93.7          | 100            | 50.0-138         |                      |                       | 6.79     | 20              |
| 1,2,4-Trichlorobenzene         | 25.0                 | 23.9               | 25.3                | 95.5          | 101            | 57.0-137         |                      |                       | 6.02     | 20              |
| 1,1,1-Trichloroethane          | 25.0                 | 23.6               | 23.6                | 94.3          | 94.3           | 73.0-124         |                      |                       | 0.0116   | 20              |
| 1,1,2-Trichloroethane          | 25.0                 | 23.1               | 22.9                | 92.6          | 91.4           | 80.0-120         |                      |                       | 1.26     | 20              |
| Trichloroethene                | 25.0                 | 26.1               | 25.9                | 104           | 104            | 78.0-124         |                      |                       | 0.572    | 20              |
| Trichlorofluoromethane         | 25.0                 | 16.0               | 15.8                | 64.0          | 63.3           | 59.0-147         |                      |                       | 1.09     | 20              |
| 1,2,3-Trichloropropane         | 25.0                 | 20.6               | 21.9                | 82.6          | 87.4           | 73.0-130         |                      |                       | 5.66     | 20              |
| 1,2,3-Trimethylbenzene         | 25.0                 | 21.6               | 22.1                | 86.6          | 88.6           | 77.0-120         |                      |                       | 2.31     | 20              |
| Vinyl acetate                  | 125                  | 72.4               | 73.4                | 57.9          | 58.7           | 11.0-160         |                      |                       | 1.37     | 20              |
| Vinyl chloride                 | 25.0                 | 18.3               | 18.2                | 73.2          | 72.7           | 67.0-131         |                      |                       | 0.636    | 20              |
| Xylenes, Total                 | 75.0                 | 73.5               | 73.4                | 98.0          | 97.9           | 79.0-123         |                      |                       | 0.136    | 20              |
| Ethylbenzene                   | 25.0                 | 24.2               | 24.2                | 96.8          | 96.9           | 79.0-123         |                      |                       | 0.119    | 20              |
| Isopropylbenzene               | 25.0                 | 25.4               | 25.3                | 102           | 101            | 76.0-127         |                      |                       | 0.180    | 20              |
| p-Isopropyltoluene             | 25.0                 | 22.5               | 23.2                | 90.1          | 92.7           | 76.0-125         |                      |                       | 2.85     | 20              |
| Methyl tert-butyl ether        | 25.0                 | 23.5               | 23.7                | 94.1          | 94.8           | 68.0-125         |                      |                       | 0.771    | 20              |
| Naphthalene                    | 25.0                 | 23.2               | 24.8                | 92.7          | 99.1           | 54.0-135         |                      |                       | 6.76     | 20              |
| n-Propylbenzene                | 25.0                 | 22.1               | 22.4                | 88.4          | 89.7           | 77.0-124         |                      |                       | 1.48     | 20              |
| Toluene                        | 25.0                 | 25.8               | 25.4                | 103           | 102            | 79.0-120         |                      |                       | 1.62     | 20              |
| 1,2,4-Trimethylbenzene         | 25.0                 | 22.1               | 22.5                | 88.5          | 90.0           | 76.0-121         |                      |                       | 1.68     | 20              |
| 1,3,5-Trimethylbenzene         | 25.0                 | 22.2               | 23.0                | 88.7          | 92.0           | 76.0-122         |                      |                       | 3.67     | 20              |
| (S) Toluene-d8                 |                      |                    |                     | 101           | 100            | 80.0-120         |                      |                       |          |                 |
| (S) 4-Bromofluorobenzene       |                      |                    |                     | 107           | 106            | 77.0-126         |                      |                       |          |                 |
| (S) 1,2-Dichloroethane-d4      |                      |                    |                     | 92.9          | 91.6           | 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) R3406794-3 04/25/19 10:03

| Analyte                     | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>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          |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3406794-3 04/25/19 10:03

| Analyte                        | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|--------------------------------|-------------------|--------------|----------------|----------------|
| Ethylbenzene                   | U                 |              | 0.158          | 0.500          |
| Hexachloro-1,3-butadiene       | 0.239             | 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                 | 101               |              |                | 80.0-120       |
| (S) 4-Bromofluorobenzene       | 105               |              |                | 77.0-126       |
| (S) 1,2-Dichloroethane-d4      | 94.7              |              |                | 70.0-130       |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





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

(LCS) R3406794-1 04/25/19 09:03 • (LCSD) R3406794-2 04/25/19 09:23

| Analyte                     | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Acetone                     | 125                  | 205                | 144                 | 164           | 115            | 19.0-160         | J4            | J3             | 34.8     | 27              |
| Acrylonitrile               | 125                  | 160                | 156                 | 128           | 125            | 55.0-149         |               |                | 2.36     | 20              |
| Benzene                     | 25.0                 | 26.0               | 26.1                | 104           | 104            | 70.0-123         |               |                | 0.383    | 20              |
| Bromobenzene                | 25.0                 | 23.4               | 23.6                | 93.5          | 94.5           | 73.0-121         |               |                | 1.10     | 20              |
| Bromodichloromethane        | 25.0                 | 22.3               | 22.3                | 89.3          | 89.2           | 75.0-120         |               |                | 0.142    | 20              |
| Bromochloromethane          | 25.0                 | 23.5               | 23.3                | 94.2          | 93.0           | 76.0-122         |               |                | 1.20     | 20              |
| Bromoform                   | 25.0                 | 26.4               | 27.0                | 106           | 108            | 68.0-132         |               |                | 2.26     | 20              |
| Bromomethane                | 25.0                 | 17.7               | 17.6                | 70.8          | 70.5           | 10.0-160         |               |                | 0.433    | 25              |
| n-Butylbenzene              | 25.0                 | 23.2               | 22.8                | 92.7          | 91.2           | 73.0-125         |               |                | 1.67     | 20              |
| sec-Butylbenzene            | 25.0                 | 23.9               | 23.3                | 95.6          | 93.1           | 75.0-125         |               |                | 2.69     | 20              |
| tert-Butylbenzene           | 25.0                 | 24.5               | 24.0                | 98.0          | 96.1           | 76.0-124         |               |                | 1.94     | 20              |
| Carbon disulfide            | 25.0                 | 28.4               | 31.0                | 113           | 124            | 61.0-128         |               |                | 8.82     | 20              |
| Carbon tetrachloride        | 25.0                 | 23.9               | 23.9                | 95.5          | 95.5           | 68.0-126         |               |                | 0.0359   | 20              |
| Chlorobenzene               | 25.0                 | 24.0               | 24.2                | 96.1          | 96.6           | 80.0-121         |               |                | 0.523    | 20              |
| Chlorodibromomethane        | 25.0                 | 23.5               | 24.0                | 94.2          | 96.0           | 77.0-125         |               |                | 1.90     | 20              |
| Chloroethane                | 25.0                 | 15.0               | 17.2                | 60.1          | 69.0           | 47.0-150         |               |                | 13.7     | 20              |
| Chloroform                  | 25.0                 | 22.0               | 21.9                | 87.8          | 87.8           | 73.0-120         |               |                | 0.0352   | 20              |
| Chloromethane               | 25.0                 | 26.3               | 26.2                | 105           | 105            | 41.0-142         |               |                | 0.338    | 20              |
| 2-Chlorotoluene             | 25.0                 | 23.1               | 22.8                | 92.6          | 91.0           | 76.0-123         |               |                | 1.66     | 20              |
| 4-Chlorotoluene             | 25.0                 | 23.4               | 23.2                | 93.5          | 93.0           | 75.0-122         |               |                | 0.522    | 20              |
| 1,2-Dibromo-3-Chloropropane | 25.0                 | 28.4               | 27.7                | 114           | 111            | 58.0-134         |               |                | 2.76     | 20              |
| 1,2-Dibromoethane           | 25.0                 | 23.3               | 23.7                | 93.0          | 94.8           | 80.0-122         |               |                | 1.90     | 20              |
| Dibromomethane              | 25.0                 | 22.7               | 22.5                | 90.7          | 90.0           | 80.0-120         |               |                | 0.716    | 20              |
| 1,2-Dichlorobenzene         | 25.0                 | 23.9               | 23.4                | 95.5          | 93.5           | 79.0-121         |               |                | 2.08     | 20              |
| 1,3-Dichlorobenzene         | 25.0                 | 23.5               | 23.2                | 94.0          | 93.0           | 79.0-120         |               |                | 1.05     | 20              |
| 1,4-Dichlorobenzene         | 25.0                 | 22.7               | 22.5                | 91.0          | 89.9           | 79.0-120         |               |                | 1.15     | 20              |
| Dichlorodifluoromethane     | 25.0                 | 26.3               | 26.2                | 105           | 105            | 51.0-149         |               |                | 0.238    | 20              |
| 1,1-Dichloroethane          | 25.0                 | 24.8               | 24.6                | 99.4          | 98.3           | 70.0-126         |               |                | 1.12     | 20              |
| 1,2-Dichloroethane          | 25.0                 | 20.8               | 20.8                | 83.1          | 83.1           | 70.0-128         |               |                | 0.0641   | 20              |
| 1,1-Dichloroethene          | 25.0                 | 25.0               | 25.4                | 100           | 102            | 71.0-124         |               |                | 1.62     | 20              |
| cis-1,2-Dichloroethene      | 25.0                 | 23.9               | 23.7                | 95.7          | 94.7           | 73.0-120         |               |                | 1.11     | 20              |
| trans-1,2-Dichloroethene    | 25.0                 | 24.9               | 24.9                | 99.6          | 99.4           | 73.0-120         |               |                | 0.115    | 20              |
| 1,2-Dichloropropane         | 25.0                 | 26.5               | 26.5                | 106           | 106            | 77.0-125         |               |                | 0.267    | 20              |
| 1,1-Dichloropropene         | 25.0                 | 24.9               | 24.8                | 99.4          | 99.1           | 74.0-126         |               |                | 0.298    | 20              |
| 1,3-Dichloropropane         | 25.0                 | 24.6               | 25.1                | 98.6          | 100            | 80.0-120         |               |                | 1.86     | 20              |
| cis-1,3-Dichloropropene     | 25.0                 | 24.0               | 24.2                | 96.2          | 96.7           | 80.0-123         |               |                | 0.513    | 20              |
| trans-1,3-Dichloropropene   | 25.0                 | 23.3               | 23.5                | 93.2          | 94.1           | 78.0-124         |               |                | 0.936    | 20              |
| trans-1,4-Dichloro-2-butene | 25.0                 | 20.7               | 19.7                | 83.0          | 78.6           | 33.0-144         |               |                | 5.42     | 20              |
| 2,2-Dichloropropane         | 25.0                 | 32.0               | 31.4                | 128           | 126            | 58.0-130         |               |                | 2.05     | 20              |
| Di-isopropyl ether          | 25.0                 | 27.7               | 27.6                | 111           | 110            | 58.0-138         |               |                | 0.601    | 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) R3406794-1 04/25/19 09:03 • (LCSD) R3406794-2 04/25/19 09:23

| Analyte                        | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|--------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Ethylbenzene                   | 25.0                 | 24.4               | 24.7                | 97.5          | 98.9           | 79.0-123         |               |                | 1.46     | 20              |
| Hexachloro-1,3-butadiene       | 25.0                 | 31.2               | 30.4                | 125           | 122            | 54.0-138         |               |                | 2.57     | 20              |
| 2-Hexanone                     | 125                  | 147                | 146                 | 117           | 117            | 67.0-149         |               |                | 0.700    | 20              |
| n-Hexane                       | 25.0                 | 29.2               | 28.6                | 117           | 114            | 57.0-133         |               |                | 2.29     | 20              |
| Iodomethane                    | 125                  | 134                | 128                 | 107           | 102            | 33.0-147         |               |                | 4.64     | 26              |
| Isopropylbenzene               | 25.0                 | 25.6               | 26.1                | 103           | 104            | 76.0-127         |               |                | 1.66     | 20              |
| p-Isopropyltoluene             | 25.0                 | 24.2               | 23.8                | 96.8          | 95.1           | 76.0-125         |               |                | 1.85     | 20              |
| 2-Butanone (MEK)               | 125                  | 165                | 156                 | 132           | 125            | 44.0-160         |               |                | 5.34     | 20              |
| Methylene Chloride             | 25.0                 | 24.7               | 24.5                | 98.8          | 98.1           | 67.0-120         |               |                | 0.726    | 20              |
| 4-Methyl-2-pentanone (MIBK)    | 125                  | 143                | 142                 | 114           | 114            | 68.0-142         |               |                | 0.369    | 20              |
| Methyl tert-butyl ether        | 25.0                 | 23.7               | 23.4                | 94.7          | 93.6           | 68.0-125         |               |                | 1.16     | 20              |
| Naphthalene                    | 25.0                 | 25.1               | 24.5                | 100           | 98.1           | 54.0-135         |               |                | 2.40     | 20              |
| n-Propylbenzene                | 25.0                 | 23.0               | 23.0                | 92.1          | 91.9           | 77.0-124         |               |                | 0.261    | 20              |
| Styrene                        | 25.0                 | 26.6               | 27.4                | 106           | 110            | 73.0-130         |               |                | 3.12     | 20              |
| 1,1,1,2-Tetrachloroethane      | 25.0                 | 24.1               | 24.0                | 96.2          | 96.2           | 75.0-125         |               |                | 0.0553   | 20              |
| 1,1,2,2-Tetrachloroethane      | 25.0                 | 22.8               | 22.7                | 91.3          | 90.8           | 65.0-130         |               |                | 0.553    | 20              |
| 1,1,2-Trichlorotrifluoroethane | 25.0                 | 23.4               | 24.1                | 93.6          | 96.5           | 69.0-132         |               |                | 3.14     | 20              |
| Tetrachloroethene              | 25.0                 | 25.8               | 25.8                | 103           | 103            | 72.0-132         |               |                | 0.287    | 20              |
| Toluene                        | 25.0                 | 25.9               | 26.1                | 103           | 104            | 79.0-120         |               |                | 0.981    | 20              |
| 1,2,3-Trichlorobenzene         | 25.0                 | 25.7               | 24.4                | 103           | 97.5           | 50.0-138         |               |                | 5.36     | 20              |
| 1,2,4-Trichlorobenzene         | 25.0                 | 26.6               | 25.2                | 107           | 101            | 57.0-137         |               |                | 5.53     | 20              |
| 1,1,1-Trichloroethane          | 25.0                 | 23.7               | 23.8                | 94.9          | 95.3           | 73.0-124         |               |                | 0.433    | 20              |
| 1,1,2-Trichloroethane          | 25.0                 | 22.8               | 22.6                | 91.3          | 90.4           | 80.0-120         |               |                | 0.971    | 20              |
| Trichloroethene                | 25.0                 | 25.1               | 25.2                | 100           | 101            | 78.0-124         |               |                | 0.572    | 20              |
| Trichlorofluoromethane         | 25.0                 | 15.2               | 16.5                | 60.9          | 65.9           | 59.0-147         |               |                | 7.93     | 20              |
| 1,2,3-Trichloropropane         | 25.0                 | 21.1               | 20.9                | 84.4          | 83.5           | 73.0-130         |               |                | 1.11     | 20              |
| 1,2,4-Trimethylbenzene         | 25.0                 | 22.8               | 22.6                | 91.2          | 90.5           | 76.0-121         |               |                | 0.774    | 20              |
| 1,2,3-Trimethylbenzene         | 25.0                 | 22.4               | 21.8                | 89.8          | 87.2           | 77.0-120         |               |                | 2.96     | 20              |
| 1,3,5-Trimethylbenzene         | 25.0                 | 23.4               | 22.6                | 93.5          | 90.5           | 76.0-122         |               |                | 3.16     | 20              |
| Vinyl acetate                  | 125                  | 119                | 120                 | 95.4          | 95.7           | 11.0-160         |               |                | 0.361    | 20              |
| Vinyl chloride                 | 25.0                 | 17.8               | 17.9                | 71.3          | 71.7           | 67.0-131         |               |                | 0.499    | 20              |
| Xylenes, Total                 | 75.0                 | 74.9               | 75.0                | 99.9          | 100            | 79.0-123         |               |                | 0.133    | 20              |
| (S) Toluene-d8                 |                      |                    |                     | 101           | 100            | 80.0-120         |               |                |          |                 |
| (S) 4-Bromofluorobenzene       |                      |                    |                     | 105           | 107            | 77.0-126         |               |                |          |                 |
| (S) 1,2-Dichloroethane-d4      |                      |                    |                     | 92.7          | 99.9           | 70.0-130         |               |                |          |                 |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3405838-4 04/26/19 11:26

| Analyte                   | MB Result | MB Qualifier | MB MDL | MB RDL   |
|---------------------------|-----------|--------------|--------|----------|
|                           | ug/l      |              | ug/l   | ug/l     |
| cis-1,2-Dichloroethene    | U         |              | 0.0933 | 0.500    |
| Vinyl chloride            | U         |              | 0.118  | 0.500    |
| (S) Toluene-d8            | 98.0      |              |        | 80.0-120 |
| (S) 4-Bromofluorobenzene  | 100       |              |        | 77.0-126 |
| (S) 1,2-Dichloroethane-d4 | 90.2      |              |        | 70.0-130 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3405838-1 04/26/19 09:29

| Analyte                   | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------------------------|--------------|------------|----------|-------------|---------------|
|                           | ug/l         | ug/l       | %        | %           |               |
| cis-1,2-Dichloroethene    | 25.0         | 26.4       | 105      | 73.0-120    |               |
| Vinyl chloride            | 25.0         | 27.1       | 108      | 67.0-131    |               |
| (S) Toluene-d8            |              |            | 95.5     | 80.0-120    |               |
| (S) 4-Bromofluorobenzene  |              |            | 101      | 77.0-126    |               |
| (S) 1,2-Dichloroethane-d4 |              |            | 89.3     | 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

|                              |  |
|------------------------------|--|
| 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

|    |  |
|----|--|
| 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.   |
| 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 <sup>1</sup>     | n/a              |
| Colorado                | TN00003     | New York                    | 11742            |
| Connecticut             | PH-0197     | North Carolina              | Env375           |
| Florida                 | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                 | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>    | 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 <sup>1,6</sup> | 90010       | South Carolina              | 84004            |
| Kentucky <sup>2</sup>   | 16          | South Dakota                | n/a              |
| Louisiana               | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana <sup>1</sup>  | LA180010    | Texas                       | T104704245-18-15 |
| Maine                   | TN0002      | Texas <sup>5</sup>          | 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             |

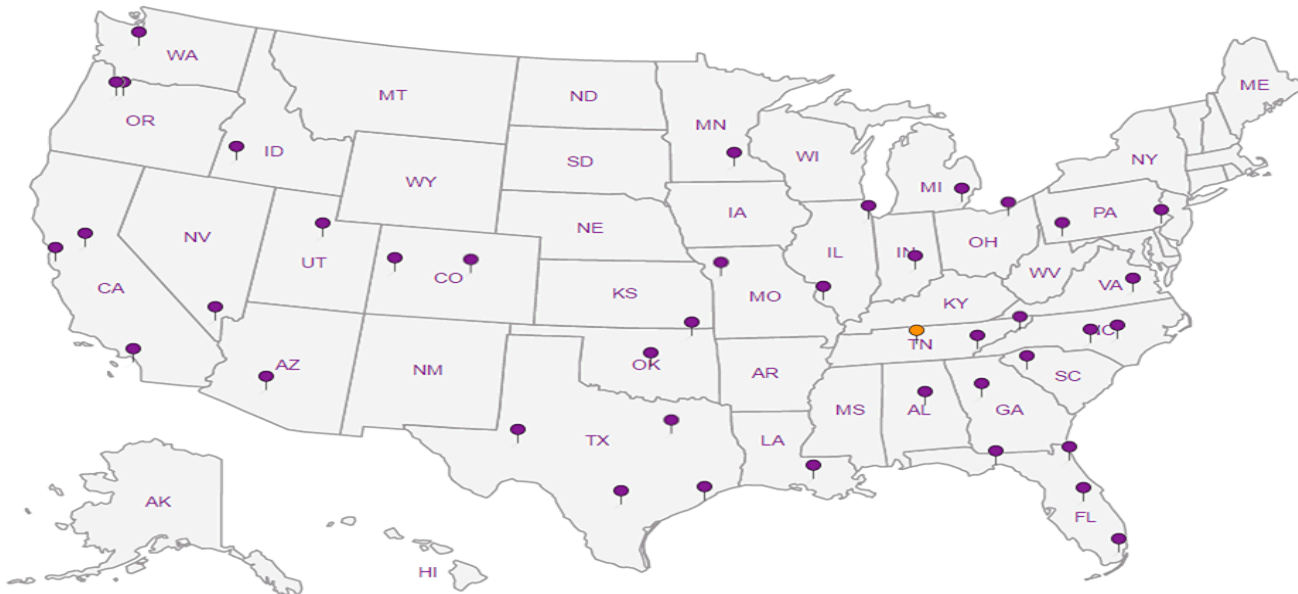
## Third Party Federal Accreditations

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

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



**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; **KVIK@PESENV.COM**  
bhdaldeman@pesenv.com; **KSPRINGSTEAD@PESENV.COM**



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



Project Description: **American Linen**  
City/State Collected:  
Client Project #: **1413.001.05.601**  
Lab Project #: **PESENVSWA-ALP**  
Phone: **206-529-3980**  
Fax: **206-529-3985**  
Collected by (print): **K. Zygo/B. Hecht**  
Site/Facility ID #: **American Linen**  
Collected by (signature): *[Signature]*  
Quote #:  
Date Results Needed:  
Immediately Packed on Ice N    Y X  
Rush? (Lab MUST Be Notified)  
Same Day    Five Day     
Next Day    5 Day (Rad Only)     
Two Day    10 Day (Rad Only)     
Three Day    **Standard TAT**

| Sample ID         | Comp/Grab | Matrix * | Depth | Date    | Time | No. of Cntrs | *NO3,S04,Cl* 125mlHDPE-NoPres | Alkalinity 125mlHDPE-NoPres | EEM (RSK175LI) 40mlAmb-HCl | TOC 250mlAmb-HCl | Total Fe Mn 6020 250mlHDPE-HNO3 | VOCs (8260C) | NWTPH-GX |
|-------------------|-----------|----------|-------|---------|------|--------------|-------------------------------|-----------------------------|----------------------------|------------------|---------------------------------|--------------|----------|
| MW103-042319      | Grab      | GW       | 108   | 4-22-19 | 1505 | 3            | X                             | X                           | X                          | X                | X                               | X            |          |
| MW111-042319      | ↓         | GW       | 75    | 4-22-19 | 1505 | 3            | X                             | X                           | X                          | X                | X                               | X            |          |
| MW104-042319      | ↓         | GW       | 75    | 4-23-19 | 0835 | 11           | X                             | X                           | X                          | X                | X                               | X            |          |
| MW105-042319      | ↓         | GW       | 135   | ↓       | 1035 | 11           | X                             | X                           | X                          | X                | X                               | X            |          |
| MW147-042319      | ↓         | GW       | 75    | ↓       | 1400 | 11           | X                             | X                           | X                          | X                | X                               | X            |          |
| Trip Blank-042319 | —         | GW       | —     | ↓       | —    | 1            |                               |                             |                            |                  |                                 |              |          |
|                   |           | GW       |       |         |      |              |                               |                             |                            |                  |                                 |              |          |
|                   |           | GW       |       |         |      |              |                               |                             |                            |                  |                                 |              |          |
|                   |           | GW       |       |         |      |              |                               |                             |                            |                  |                                 |              |          |

RAD SCREEN: <0.5 mRN

L# **L1091936**  
T# **B103**  
Acctnum: **PESENVSWA**  
Template: **T143845**  
Prelogin: **P701221**  
TSR: **110 - Brian Ford**  
PB: **4-1-19**  
Shipped Via: **FedEX Ground**

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

Remarks: **Tier 2 QA/QC for all**

pH    Temp     
Flow    Other   

Samples returned via:  
 UPS  FedEx  Courier

Tracking # **4876 1086 1910**

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

Relinquished by: (Signature) *[Signature]* Date: **04-23-19** Time: **1700**

Relinquished by: (Signature) *[Signature]* Date:    Time:   

Relinquished by: (Signature) *[Signature]* Date:    Time:   

Received by: (Signature) *[Signature]* Trip Blank Received: Yes/No    HCL/MeOH    TBR   

Received by: (Signature) *[Signature]* Temp:    °C Bottles Received: **0.9 ± 0.0910 39**

Received for lab by: (Signature) *[Signature]* Date: **4/24/19** Time: **0845**

If preservation required by Login: Date/Time   

Condition: **NCF / OK**

## Brian Ford

---

**From:** Kim Vik <Kvik@pesenv.com>  
**Sent:** Wednesday, April 24, 2019 11:51 AM  
**To:** Brian Ford  
**Cc:** Bill Haldeman; Karsten Springstead  
**Subject:** American Linen - Groundwater Samples - COC - CORRECTION  
**Attachments:** COC\_20190424.pdf

**Importance:** High

Hi Brian,  
I was reviewing the COC for the samples that were shipped to you yesterday (see attached) and I need to make some corrections. They are shown on the mark up attached, but will write them here too:

Sample MW-155-042319 should be analyzed for VOCs and gasoline only  
Sample MW103-042219 should be analyzed for VOCs only  
Sample MW111-042219 should be analyzed for VOCs only  
Sample MW104-042319 should also be analyzed for gasoline (add that analysis)  
Sample MW105-042319 should also be analyzed for gasoline (add that analysis)  
Sample MW147-042319 should also be analyzed for gasoline (add that analysis)

Let me know if you have any questions.

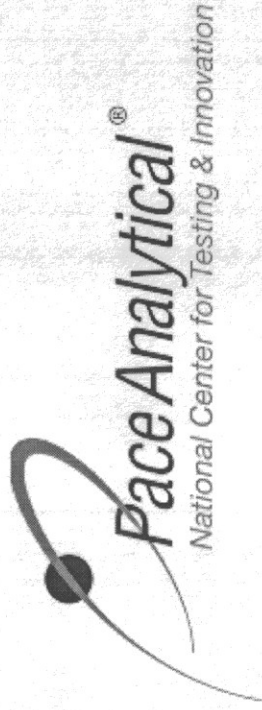
Thanks!

**Kim Vik, L.G.**  
Senior Geologist

**PES Environmental, Inc.**  
1215 Fourth Avenue, Suite 1350  
Seattle, Washington 98161-1012  
[kvik@pesenv.com](mailto:kvik@pesenv.com)

**Office: (206) 529-3980, Ext. 110**

**Troy Dunlap**



|                   |                   |               |                            |
|-------------------|-------------------|---------------|----------------------------|
| Login #: L1091936 | Client: PESENVSWA | Date: 4/24/19 | Evaluated by: Troy Dunlap. |
|-------------------|-------------------|---------------|----------------------------|

**Non-Conformance (check applicable items)**

| Sample Integrity               | Chain of Custody Clarification                   | If Broken Container:                                 |
|--------------------------------|--|--|
| Parameter(s) past holding time | X<br>Login Clarification Needed                  |  |
| Temperature not in range       | Chain of custody is incomplete                   | Insufficient packing material around container       |
| Improper container type        | Please specify Metals requested.                 | Insufficient packing material inside cooler          |
| pH not in range.               | Please specify TCLP requested.                   | 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.                         | <b>If no Chain of Custody:</b>                       |
| 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: For ID MW103 and MW111 the client marked all analysis but only sent three 40ml-HCL vials.**

|                     |                         |         |            |                |            |
|---------------------|-------------------------|---------|------------|----------------|------------|
| Client informed by: | Call                    | Email X | Voice Mail | Date: 04/24/19 | Time: 1220 |
| TSR Initials: bjf   | Client Contact: Kim Vik |         |            |                |            |

**Login Instructions:**

Log MW103 and MW111 for V8260LLC only.  
Add NWTPHGX to MW104, MW105, MW147.





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                     | 1.66   | J         | J J0 J3 J4 | 1.05   | 25.0     | 1           | 04/25/2019 16:48<br>WG1271705 |
| Acrylonitrile               | U      |           |            | 0.873  | 5.00     | 1           | 04/25/2019 16:48<br>WG1271705 |
| Benzene                     | U      |           |            | 0.0896 | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| Bromobenzene                | U      |           |            | 0.133  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| Bromodichloromethane        | U      |           |            | 0.0800 | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| Bromochloromethane          | U      |           |            | 0.145  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| Bromoform                   | U      |           |            | 0.186  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| Bromomethane                | U      | UJ        | J0         | 0.157  | 2.50     | 1           | 04/25/2019 16:48<br>WG1271705 |
| n-Butylbenzene              | U      |           |            | 0.143  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| sec-Butylbenzene            | U      |           |            | 0.134  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| tert-Butylbenzene           | U      |           |            | 0.183  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| Carbon disulfide            | U      |           |            | 0.101  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| Carbon tetrachloride        | U      |           |            | 0.159  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| Chlorobenzene               | U      |           |            | 0.140  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| Chlorodibromomethane        | U      |           |            | 0.128  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| Chloroethane                | U      | UJ        | J0         | 0.141  | 2.50     | 1           | 04/25/2019 16:48<br>WG1271705 |
| Chloroform                  | U      |           |            | 0.0860 | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| Chloromethane               | U      |           |            | 0.153  | 1.25     | 1           | 04/25/2019 16:48<br>WG1271705 |
| 2-Chlorotoluene             | U      |           |            | 0.111  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| 4-Chlorotoluene             | U      |           |            | 0.0972 | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| 1,2-Dibromo-3-Chloropropane | U      |           |            | 0.325  | 2.50     | 1           | 04/25/2019 16:48<br>WG1271705 |
| 1,2-Dibromoethane           | U      |           |            | 0.193  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| Dibromomethane              | U      |           |            | 0.117  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| 1,2-Dichlorobenzene         | U      |           |            | 0.101  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| 1,3-Dichlorobenzene         | U      |           |            | 0.130  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| 1,4-Dichlorobenzene         | U      |           |            | 0.121  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| Dichlorodifluoromethane     | U      |           |            | 0.127  | 2.50     | 1           | 04/25/2019 16:48<br>WG1271705 |
| 1,1-Dichloroethane          | U      |           |            | 0.114  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| 1,2-Dichloroethane          | U      |           |            | 0.108  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| 1,1-Dichloroethene          | 1.22   |           |            | 0.188  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| cis-1,2-Dichloroethene      | 88.0   |           |            | 0.0933 | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| trans-1,2-Dichloroethene    | 0.209  | J         | J          | 0.152  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| 1,2-Dichloropropane         | U      |           |            | 0.190  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| 1,1-Dichloropropene         | U      |           |            | 0.128  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| 1,3-Dichloropropane         | U      |           |            | 0.147  | 1.00     | 1           | 04/25/2019 16:48<br>WG1271705 |
| cis-1,3-Dichloropropene     | U      |           |            | 0.0976 | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| trans-1,3-Dichloropropene   | U      |           |            | 0.222  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| trans-1,4-Dichloro-2-butene | U      |           |            | 0.257  | 5.00     | 1           | 04/25/2019 16:48<br>WG1271705 |
| 2,2-Dichloropropane         | U      |           |            | 0.0929 | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| Di-isopropyl ether          | U      |           |            | 0.0924 | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| Ethylbenzene                | U      |           |            | 0.158  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| Hexachloro-1,3-butadiene    | U      |           |            | 0.157  | 1.00     | 1           | 04/25/2019 16:48<br>WG1271705 |
| 2-Hexanone                  | U      |           |            | 0.757  | 5.00     | 1           | 04/25/2019 16:48<br>WG1271705 |
| n-Hexane                    | U      |           |            | 0.305  | 5.00     | 1           | 04/25/2019 16:48<br>WG1271705 |
| Iodomethane                 | U      |           |            | 0.377  | 10.0     | 1           | 04/25/2019 16:48<br>WG1271705 |
| Isopropylbenzene            | U      |           |            | 0.126  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| p-Isopropyltoluene          | U      |           |            | 0.138  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| 2-Butanone (MEK)            | U      |           |            | 1.28   | 5.00     | 1           | 04/25/2019 16:48<br>WG1271705 |
| Methylene Chloride          | U      |           |            | 1.07   | 2.50     | 1           | 04/25/2019 16:48<br>WG1271705 |
| 4-Methyl-2-pentanone (MIBK) | U      |           |            | 0.823  | 5.00     | 1           | 04/25/2019 16:48<br>WG1271705 |
| Methyl tert-butyl ether     | U      |           |            | 0.102  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| Naphthalene                 | U      |           |            | 0.174  | 2.50     | 1           | 04/25/2019 16:48<br>WG1271705 |
| n-Propylbenzene             | U      |           |            | 0.162  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| Styrene                     | U      |           |            | 0.117  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| 1,1,1,2-Tetrachloroethane   | U      |           |            | 0.120  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |
| 1,1,2,2-Tetrachloroethane   | U      |           |            | 0.130  | 0.500    | 1           | 04/25/2019 16:48<br>WG1271705 |

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<br>ug/l | Qualifier           | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|---------------------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,1,2-Trichlorotrifluoroethane | U              |                     | 0.164       | 0.500       | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| Tetrachloroethene              | U              |                     | 0.199       | 0.500       | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| Toluene                        | U              |                     | 0.412       | 0.500       | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| 1,2,3-Trichlorobenzene         | U              |                     | 0.164       | 0.500       | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| 1,2,4-Trichlorobenzene         | U              |                     | 0.355       | 0.500       | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| 1,1,1-Trichloroethane          | U              |                     | 0.0940      | 0.500       | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| 1,1,2-Trichloroethane          | U              |                     | 0.186       | 0.500       | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| Trichloroethene                | 3.09           |                     | 0.153       | 0.500       | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| Trichlorofluoromethane         | U              | <b>UJ</b> <u>JO</u> | 0.130       | 2.50        | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| 1,2,3-Trichloropropane         | U              |                     | 0.247       | 2.50        | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| 1,2,4-Trimethylbenzene         | U              |                     | 0.123       | 0.500       | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| 1,2,3-Trimethylbenzene         | U              |                     | 0.0739      | 0.500       | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| 1,3,5-Trimethylbenzene         | U              |                     | 0.124       | 0.500       | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| Vinyl acetate                  | U              |                     | 0.645       | 5.00        | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| Vinyl chloride                 | 32.3           | <b>J</b> <u>JO</u>  | 0.118       | 0.500       | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| Xylenes, Total                 | U              |                     | 0.316       | 1.50        | 1        | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| (S) Toluene-d8                 | 100            |                     |             | 80.0-120    |          | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| (S) 4-Bromofluorobenzene       | 105            |                     |             | 77.0-126    |          | 04/25/2019 16:48        | <a href="#">WG1271705</a> |
| (S) 1,2-Dichloroethane-d4      | 91.6           |                     |             | 70.0-130    |          | 04/25/2019 16:48        | <a href="#">WG1271705</a> |

- 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                     | 1.17   | J         | <u>J J0 J3 J4</u> | 1.05  | 25.0     | 1   | 04/25/2019 17:08<br><a href="#">WG1271705</a> |
| Acrylonitrile               | U      |           | 0.873             | 5.00  | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| Benzene                     | U      |           | 0.0896            | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| Bromobenzene                | U      |           | 0.133             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| Bromodichloromethane        | U      |           | 0.0800            | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| Bromochloromethane          | U      |           | 0.145             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| Bromoform                   | U      |           | 0.186             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| Bromomethane                | U      | UJ        | <u>J0</u>         | 0.157 | 2.50     | 1   | 04/25/2019 17:08<br><a href="#">WG1271705</a> |
| n-Butylbenzene              | U      |           | 0.143             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| sec-Butylbenzene            | U      |           | 0.134             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| tert-Butylbenzene           | U      |           | 0.183             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| Carbon disulfide            | U      |           | 0.101             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| Carbon tetrachloride        | U      |           | 0.159             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| Chlorobenzene               | U      |           | 0.140             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| Chlorodibromomethane        | U      |           | 0.128             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| Chloroethane                | 0.255  | J         | <u>J J0</u>       | 0.141 | 2.50     | 1   | 04/25/2019 17:08<br><a href="#">WG1271705</a> |
| Chloroform                  | U      |           | 0.0860            | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| Chloromethane               | U      |           | 0.153             | 1.25  | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| 2-Chlorotoluene             | U      |           | 0.111             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| 4-Chlorotoluene             | U      |           | 0.0972            | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325             | 2.50  | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| 1,2-Dibromoethane           | U      |           | 0.193             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| Dibromomethane              | U      |           | 0.117             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| 1,2-Dichlorobenzene         | U      |           | 0.101             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| 1,3-Dichlorobenzene         | U      |           | 0.130             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| 1,4-Dichlorobenzene         | U      |           | 0.121             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| Dichlorodifluoromethane     | U      |           | 0.127             | 2.50  | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| 1,1-Dichloroethane          | U      |           | 0.114             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| 1,2-Dichloroethane          | U      |           | 0.108             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| 1,1-Dichloroethene          | U      |           | 0.188             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| cis-1,2-Dichloroethene      | 3.18   |           | 0.0933            | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| trans-1,2-Dichloroethene    | U      |           | 0.152             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| 1,2-Dichloropropane         | U      |           | 0.190             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| 1,1-Dichloropropene         | U      |           | 0.128             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| 1,3-Dichloropropane         | U      |           | 0.147             | 1.00  | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| cis-1,3-Dichloropropene     | U      |           | 0.0976            | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| trans-1,3-Dichloropropene   | U      |           | 0.222             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257             | 5.00  | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| 2,2-Dichloropropane         | U      |           | 0.0929            | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| Di-isopropyl ether          | U      |           | 0.0924            | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| Ethylbenzene                | U      |           | 0.158             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| Hexachloro-1,3-butadiene    | U      |           | 0.157             | 1.00  | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| 2-Hexanone                  | U      |           | 0.757             | 5.00  | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| n-Hexane                    | U      |           | 0.305             | 5.00  | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| Iodomethane                 | U      |           | 0.377             | 10.0  | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| Isopropylbenzene            | U      |           | 0.126             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| p-Isopropyltoluene          | U      |           | 0.138             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| 2-Butanone (MEK)            | U      |           | 1.28              | 5.00  | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| Methylene Chloride          | U      |           | 1.07              | 2.50  | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| 4-Methyl-2-pentanone (MIBK) | U      |           | 0.823             | 5.00  | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| Methyl tert-butyl ether     | U      |           | 0.102             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| Naphthalene                 | U      |           | 0.174             | 2.50  | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| n-Propylbenzene             | U      |           | 0.162             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| Styrene                     | U      |           | 0.117             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| 1,1,1,2-Tetrachloroethane   | U      |           | 0.120             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |
| 1,1,2,2-Tetrachloroethane   | U      |           | 0.130             | 0.500 | 1        | 04/25/2019 17:08<br><a href="#">WG1271705</a> |   |

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<br>ug/l | Qualifier           | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|---------------------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,1,2-Trichlorotrifluoroethane | U              |                     | 0.164       | 0.500       | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| Tetrachloroethene              | U              |                     | 0.199       | 0.500       | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| Toluene                        | U              |                     | 0.412       | 0.500       | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| 1,2,3-Trichlorobenzene         | U              |                     | 0.164       | 0.500       | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| 1,2,4-Trichlorobenzene         | U              |                     | 0.355       | 0.500       | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| 1,1,1-Trichloroethane          | U              |                     | 0.0940      | 0.500       | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| 1,1,2-Trichloroethane          | U              |                     | 0.186       | 0.500       | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| Trichloroethene                | U              |                     | 0.153       | 0.500       | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| Trichlorofluoromethane         | U              | <b>UJ</b> <u>JO</u> | 0.130       | 2.50        | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| 1,2,3-Trichloropropane         | U              |                     | 0.247       | 2.50        | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| 1,2,4-Trimethylbenzene         | U              |                     | 0.123       | 0.500       | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| 1,2,3-Trimethylbenzene         | U              |                     | 0.0739      | 0.500       | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| 1,3,5-Trimethylbenzene         | U              |                     | 0.124       | 0.500       | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| Vinyl acetate                  | U              |                     | 0.645       | 5.00        | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| Vinyl chloride                 | 19.5           | <b>J</b> <u>JO</u>  | 0.118       | 0.500       | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| Xylenes, Total                 | U              |                     | 0.316       | 1.50        | 1        | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| (S) Toluene-d8                 | 100            |                     |             | 80.0-120    |          | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| (S) 4-Bromofluorobenzene       | 104            |                     |             | 77.0-126    |          | 04/25/2019 17:08        | <a href="#">WG1271705</a> |
| (S) 1,2-Dichloroethane-d4      | 93.3           |                     |             | 70.0-130    |          | 04/25/2019 17:08        | <a href="#">WG1271705</a> |

- 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 | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 196000 |           | 2710 | 20000 | 1        | 04/29/2019 17:35 | <a href="#">WG1273424</a> |

Sample Narrative:

L1091936-03 WG1273424: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 18600  |           | 51.9 | 1000 | 1        | 04/24/2019 19:20 | <a href="#">WG1271082</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/24/2019 19:20 | <a href="#">WG1271082</a> |
| Sulfate  | 5960   |           | 77.4 | 5000 | 1        | 04/24/2019 19:20 | <a href="#">WG1271082</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 5970   |           | 102  | 1000 | 1        | 04/24/2019 22:37 | <a href="#">WG1271094</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Iron      | 5030   |           | 75.0 | 500  | 5        | 05/07/2019 00:32 | <a href="#">WG1271169</a> |
| Manganese | 285    |           | 1.25 | 25.0 | 5        | 05/07/2019 00:32 | <a href="#">WG1271169</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | 174    | J+        | 31.6 | 100      | 1        | 04/25/2019 14:32 | <a href="#">WG1271515</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111    |           |      | 78.0-120 |          | 04/25/2019 14:32 | <a href="#">WG1271515</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 437    |           | 0.287 | 0.678 | 1        | 04/26/2019 13:42 | <a href="#">WG1271298</a> |
| Ethane  | 2.60   |           | 0.296 | 1.29  | 1        | 04/26/2019 13:42 | <a href="#">WG1271298</a> |
| Ethene  | 17.7   |           | 0.422 | 1.27  | 1        | 04/26/2019 13:42 | <a href="#">WG1271298</a> |

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              | 23.4   | J         | J JO   | 1.05  | 25.0     | 1                | 04/24/2019 18:16          | <a href="#">WG1271083</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 04/24/2019 18:16 | <a href="#">WG1271083</a> |                           |
| Benzene              | U      |           | 0.0896 | 0.500 | 1        | 04/24/2019 18:16 | <a href="#">WG1271083</a> |                           |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 04/24/2019 18:16 | <a href="#">WG1271083</a> |                           |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 04/24/2019 18:16 | <a href="#">WG1271083</a> |                           |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 04/24/2019 18:16 | <a href="#">WG1271083</a> |                           |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 04/24/2019 18:16 | <a href="#">WG1271083</a> |                           |
| Bromomethane         | U      | UJ        | JO     | 0.157 | 2.50     | 1                | 04/24/2019 18:16          | <a href="#">WG1271083</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 04/24/2019 18:16 | <a href="#">WG1271083</a> |                           |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 04/24/2019 18:16 | <a href="#">WG1271083</a> |                           |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 04/24/2019 18:16 | <a href="#">WG1271083</a> |                           |
| Carbon disulfide     | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 18:16 | <a href="#">WG1271083</a> |                           |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 04/24/2019 18:16 | <a href="#">WG1271083</a> |                           |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/23/19 08:35

L1091936

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

| Analyte                        | Result<br>ug/l | Qualifier           | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|---------------------|-------------|-------------|----------|-------------------------|---------------------------|
| Chlorobenzene                  | U              |                     | 0.140       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Chlorodibromomethane           | U              |                     | 0.128       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Chloroethane                   | U              | <b>UJ</b> <u>JO</u> | 0.141       | 2.50        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Chloroform                     | U              |                     | 0.0860      | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Chloromethane                  | U              |                     | 0.153       | 1.25        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 2-Chlorotoluene                | U              |                     | 0.111       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 4-Chlorotoluene                | U              |                     | 0.0972      | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,2-Dibromo-3-Chloropropane    | U              |                     | 0.325       | 2.50        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,2-Dibromoethane              | U              |                     | 0.193       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Dibromomethane                 | U              |                     | 0.117       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,2-Dichlorobenzene            | U              |                     | 0.101       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,3-Dichlorobenzene            | U              |                     | 0.130       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,4-Dichlorobenzene            | U              |                     | 0.121       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Dichlorodifluoromethane        | U              |                     | 0.127       | 2.50        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,1-Dichloroethane             | U              |                     | 0.114       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,2-Dichloroethane             | U              |                     | 0.108       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,1-Dichloroethene             | 5.86           |                     | 0.188       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| cis-1,2-Dichloroethene         | 162            |                     | 0.0933      | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| trans-1,2-Dichloroethene       | 2.49           |                     | 0.152       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,2-Dichloropropane            | U              |                     | 0.190       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,1-Dichloropropene            | U              |                     | 0.128       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,3-Dichloropropane            | U              |                     | 0.147       | 1.00        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| cis-1,3-Dichloropropene        | U              |                     | 0.0976      | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| trans-1,3-Dichloropropene      | U              |                     | 0.222       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| trans-1,4-Dichloro-2-butene    | U              |                     | 0.257       | 5.00        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 2,2-Dichloropropane            | U              |                     | 0.0929      | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Di-isopropyl ether             | U              |                     | 0.0924      | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Ethylbenzene                   | U              |                     | 0.158       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Hexachloro-1,3-butadiene       | U              |                     | 0.157       | 1.00        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 2-Hexanone                     | U              |                     | 0.757       | 5.00        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| n-Hexane                       | U              |                     | 0.305       | 5.00        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Iodomethane                    | U              |                     | 0.377       | 10.0        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Isopropylbenzene               | U              |                     | 0.126       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| p-Isopropyltoluene             | U              |                     | 0.138       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 2-Butanone (MEK)               | 4.72           | <b>J</b> <u>J</u>   | 1.28        | 5.00        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Methylene Chloride             | U              |                     | 1.07        | 2.50        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |                     | 0.823       | 5.00        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Methyl tert-butyl ether        | U              |                     | 0.102       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Naphthalene                    | U              |                     | 0.174       | 2.50        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| n-Propylbenzene                | U              |                     | 0.162       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Styrene                        | U              |                     | 0.117       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,1,1,2-Tetrachloroethane      | U              |                     | 0.120       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,1,2,2-Tetrachloroethane      | U              |                     | 0.130       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |                     | 0.164       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Tetrachloroethene              | 15.9           |                     | 0.199       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Toluene                        | U              |                     | 0.412       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,2,3-Trichlorobenzene         | U              |                     | 0.164       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,2,4-Trichlorobenzene         | U              |                     | 0.355       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,1,1-Trichloroethane          | U              |                     | 0.0940      | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,1,2-Trichloroethane          | U              |                     | 0.186       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Trichloroethene                | 56.9           |                     | 0.153       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Trichlorofluoromethane         | U              | <b>UJ</b> <u>JO</u> | 0.130       | 2.50        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,2,3-Trichloropropane         | U              |                     | 0.247       | 2.50        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,2,4-Trimethylbenzene         | U              |                     | 0.123       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,2,3-Trimethylbenzene         | U              |                     | 0.0739      | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| 1,3,5-Trimethylbenzene         | U              |                     | 0.124       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              | UJ JO     | 0.645       | 5.00        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Vinyl chloride            | 21.1           | J JO      | 0.118       | 0.500       | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| (S) Toluene-d8            | 100            |           |             | 80.0-120    |          | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| (S) 4-Bromofluorobenzene  | 106            |           |             | 77.0-126    |          | 04/24/2019 18:16        | <a href="#">WG1271083</a> |
| (S) 1,2-Dichloroethane-d4 | 92.0           |           |             | 70.0-130    |          | 04/24/2019 18:16        | <a href="#">WG1271083</a> |

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 | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 275000 |           | 2710 | 20000 | 1        | 04/29/2019 17:43 | <a href="#">WG1273424</a> |

Sample Narrative:

L1091936-04 WG1273424: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 37900  |           | 51.9 | 1000 | 1        | 04/24/2019 19:35 | <a href="#">WG1271082</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/24/2019 19:35 | <a href="#">WG1271082</a> |
| Sulfate  | 5810   |           | 77.4 | 5000 | 1        | 04/24/2019 19:35 | <a href="#">WG1271082</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 4060   |           | 102  | 1000 | 1        | 04/24/2019 23:17 | <a href="#">WG1271094</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Iron      | 5270   |           | 75.0 | 500  | 5        | 05/07/2019 00:37 | <a href="#">WG1271169</a> |
| Manganese | 893    |           | 1.25 | 25.0 | 5        | 05/07/2019 00:37 | <a href="#">WG1271169</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 04/25/2019 14:56 | <a href="#">WG1271515</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111    |           |      | 78.0-120 |          | 04/25/2019 14:56 | <a href="#">WG1271515</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 1660   |           | 0.287 | 0.678 | 1        | 04/26/2019 13:45 | <a href="#">WG1271298</a> |
| Ethane  | U      |           | 0.296 | 1.29  | 1        | 04/26/2019 13:45 | <a href="#">WG1271298</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 04/26/2019 13:45 | <a href="#">WG1271298</a> |

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              | 1.22   | J         | J JO   | 1.05  | 25.0     | 1                | 04/24/2019 18:36          | <a href="#">WG1271083</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 04/24/2019 18:36 | <a href="#">WG1271083</a> |                           |
| Benzene              | U      |           | 0.0896 | 0.500 | 1        | 04/24/2019 18:36 | <a href="#">WG1271083</a> |                           |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 04/24/2019 18:36 | <a href="#">WG1271083</a> |                           |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 04/24/2019 18:36 | <a href="#">WG1271083</a> |                           |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 04/24/2019 18:36 | <a href="#">WG1271083</a> |                           |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 04/24/2019 18:36 | <a href="#">WG1271083</a> |                           |
| Bromomethane         | U      | UJ        | JO     | 0.157 | 2.50     | 1                | 04/24/2019 18:36          | <a href="#">WG1271083</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 04/24/2019 18:36 | <a href="#">WG1271083</a> |                           |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 04/24/2019 18:36 | <a href="#">WG1271083</a> |                           |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 04/24/2019 18:36 | <a href="#">WG1271083</a> |                           |
| Carbon disulfide     | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 18:36 | <a href="#">WG1271083</a> |                           |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 04/24/2019 18:36 | <a href="#">WG1271083</a> |                           |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Collected date/time: 04/23/19 10:35

L1091936

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| Chloroethane                   | U              | UJ JO     | 0.141       | 2.50        | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 1,1-Dichloroethene             | U              |           | 0.188       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| cis-1,2-Dichloroethene         | 0.917          |           | 0.0933      | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| trans-1,2-Dichloroethene       | U              |           | 0.152       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 2-Hexanone                     | U              |           | 0.757       | 5.00        | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              | UJ JO     | 0.645       | 5.00        | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| Vinyl chloride            | 0.238          | J JJ0     | 0.118       | 0.500       | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| (S) Toluene-d8            | 101            |           |             | 80.0-120    |          | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| (S) 4-Bromofluorobenzene  | 105            |           |             | 77.0-126    |          | 04/24/2019 18:36        | <a href="#">WG1271083</a> |
| (S) 1,2-Dichloroethane-d4 | 93.1           |           |             | 70.0-130    |          | 04/24/2019 18:36        | <a href="#">WG1271083</a> |

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 | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 346000 |           | 2710 | 20000 | 1        | 04/29/2019 17:50 | <a href="#">WG1273424</a> |

Sample Narrative:

L1091936-05 WG1273424: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 26900  |           | 51.9 | 1000 | 1        | 04/24/2019 19:49 | <a href="#">WG1271082</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/24/2019 19:49 | <a href="#">WG1271082</a> |
| Sulfate  | 28100  |           | 77.4 | 5000 | 1        | 04/24/2019 19:49 | <a href="#">WG1271082</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 13700  |           | 102  | 1000 | 1        | 04/24/2019 23:34 | <a href="#">WG1271094</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Iron      | 4390   |           | 75.0 | 500  | 5        | 05/07/2019 00:43 | <a href="#">WG1271169</a> |
| Manganese | 787    |           | 1.25 | 25.0 | 5        | 05/07/2019 00:43 | <a href="#">WG1271169</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | 139    | J+        | 31.6 | 100      | 1        | 04/25/2019 15:20 | <a href="#">WG1271515</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111    |           |      | 78.0-120 |          | 04/25/2019 15:20 | <a href="#">WG1271515</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Methane | 8110   |           | 2.87  | 6.78 | 10       | 04/26/2019 14:59 | <a href="#">WG1271298</a> |
| Ethane  | U      |           | 0.296 | 1.29 | 1        | 04/26/2019 13:49 | <a href="#">WG1271298</a> |
| Ethene  | 158    |           | 0.422 | 1.27 | 1        | 04/26/2019 13:49 | <a href="#">WG1271298</a> |

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

| Analyte              | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch                     |
|----------------------|--------|-----------|--------|-------|----------|------------------|---------------------------|
|                      | ug/l   |           | ug/l   | ug/l  |          | date / time      |                           |
| Acetone              | 1.91   | J JJO     | 1.05   | 25.0  | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |
| Benzene              | U      |           | 0.0896 | 0.500 | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |
| Bromomethane         | U UJ   | JO        | 0.157  | 2.50  | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |
| Carbon disulfide     | U      |           | 0.101  | 0.500 | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 04/24/2019 18:56 | <a href="#">WG1271083</a> |

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



Collected date/time: 04/23/19 14:00

L1091936

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Chloroethane                   | U              | UJ JO     | 0.141       | 2.50        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,1-Dichloroethene             | 1.75           |           | 0.188       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| cis-1,2-Dichloroethene         | 322            |           | 0.933       | 5.00        | 10       | 04/26/2019 12:43        | <a href="#">WG1272362</a> |
| trans-1,2-Dichloroethene       | 1.47           |           | 0.152       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 2-Hexanone                     | U              |           | 0.757       | 5.00        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Trichloroethene                | 5.13           |           | 0.153       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              | UJ JO     | 0.645       | 5.00        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| Vinyl chloride            | 499            |           | 1.18        | 5.00        | 10       | 04/26/2019 12:43        | <a href="#">WG1272362</a> |
| Xylenes, Total            | U              | UJ JO     | 0.316       | 1.50        | 1        | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| (S) Toluene-d8            | 100            |           |             | 80.0-120    |          | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| (S) Toluene-d8            | 98.8           |           |             | 80.0-120    |          | 04/26/2019 12:43        | <a href="#">WG1272362</a> |
| (S) 4-Bromofluorobenzene  | 105            |           |             | 77.0-126    |          | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| (S) 4-Bromofluorobenzene  | 99.9           |           |             | 77.0-126    |          | 04/26/2019 12:43        | <a href="#">WG1272362</a> |
| (S) 1,2-Dichloroethane-d4 | 94.2           |           |             | 70.0-130    |          | 04/24/2019 18:56        | <a href="#">WG1271083</a> |
| (S) 1,2-Dichloroethane-d4 | 89.2           |           |             | 70.0-130    |          | 04/26/2019 12:43        | <a href="#">WG1272362</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | U              |           | 31.6        | 100         | 1        | 04/25/2019 12:32        | <a href="#">WG1271515</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 112            |           |             | 78.0-120    |          | 04/25/2019 12:32        | <a href="#">WG1271515</a> |

1 Cp

2 Tc

3 Ss

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

| Analyte                     | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | U              |           | 1.05        | 25.0        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Acrylonitrile               | U              |           | 0.873       | 5.00        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Benzene                     | U              |           | 0.0896      | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Bromobenzene                | U              |           | 0.133       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Bromodichloromethane        | U              |           | 0.0800      | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Bromochloromethane          | U              |           | 0.145       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Bromoform                   | U              |           | 0.186       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Bromomethane                | U              | UJ JO     | 0.157       | 2.50        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| n-Butylbenzene              | U              |           | 0.143       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| sec-Butylbenzene            | U              |           | 0.134       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| tert-Butylbenzene           | U              |           | 0.183       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Carbon disulfide            | U              |           | 0.101       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Carbon tetrachloride        | U              |           | 0.159       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Chlorobenzene               | U              |           | 0.140       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Chlorodibromomethane        | U              |           | 0.128       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Chloroethane                | U              | UJ JO     | 0.141       | 2.50        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Chloroform                  | U              |           | 0.0860      | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Chloromethane               | U              |           | 0.153       | 1.25        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 2-Chlorotoluene             | U              |           | 0.111       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 4-Chlorotoluene             | U              |           | 0.0972      | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,2-Dibromo-3-Chloropropane | U              |           | 0.325       | 2.50        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,2-Dibromoethane           | U              |           | 0.193       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Dibromomethane              | U              |           | 0.117       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,2-Dichlorobenzene         | U              |           | 0.101       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,3-Dichlorobenzene         | U              |           | 0.130       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,4-Dichlorobenzene         | U              |           | 0.121       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Dichlorodifluoromethane     | U              |           | 0.127       | 2.50        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,1-Dichloroethane          | U              |           | 0.114       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,2-Dichloroethane          | U              |           | 0.108       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,1-Dichloroethene          | U              |           | 0.188       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| cis-1,2-Dichloroethene      | U              |           | 0.0933      | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| trans-1,2-Dichloroethene    | U              |           | 0.152       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,2-Dichloropropane         | U              |           | 0.190       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,1-Dichloropropene         | U              |           | 0.128       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,3-Dichloropropane         | U              |           | 0.147       | 1.00        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| cis-1,3-Dichloropropene     | U              |           | 0.0976      | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| trans-1,3-Dichloropropene   | U              |           | 0.222       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| trans-1,4-Dichloro-2-butene | U              |           | 0.257       | 5.00        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 2,2-Dichloropropane         | U              |           | 0.0929      | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Di-isopropyl ether          | U              |           | 0.0924      | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Ethylbenzene                | U              |           | 0.158       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Hexachloro-1,3-butadiene    | U              |           | 0.157       | 1.00        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 2-Hexanone                  | U              |           | 0.757       | 5.00        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| n-Hexane                    | U              |           | 0.305       | 5.00        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Iodomethane                 | U              |           | 0.377       | 10.0        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Isopropylbenzene            | U              |           | 0.126       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| p-Isopropyltoluene          | U              |           | 0.138       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 2-Butanone (MEK)            | U              |           | 1.28        | 5.00        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/23/19 00:00

L1091936

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Vinyl acetate                  | U              | UJ JO     | 0.645       | 5.00        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Vinyl chloride                 | U              | UJ JO     | 0.118       | 0.500       | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| (S) Toluene-d8                 | 100            |           |             | 80.0-120    |          | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| (S) 4-Bromofluorobenzene       | 105            |           |             | 77.0-126    |          | 04/24/2019 16:36        | <a href="#">WG1271083</a> |
| (S) 1,2-Dichloroethane-d4      | 92.9           |           |             | 70.0-130    |          | 04/24/2019 16:36        | <a href="#">WG1271083</a> |

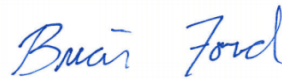
- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



## PES Environmental, Inc.- WA

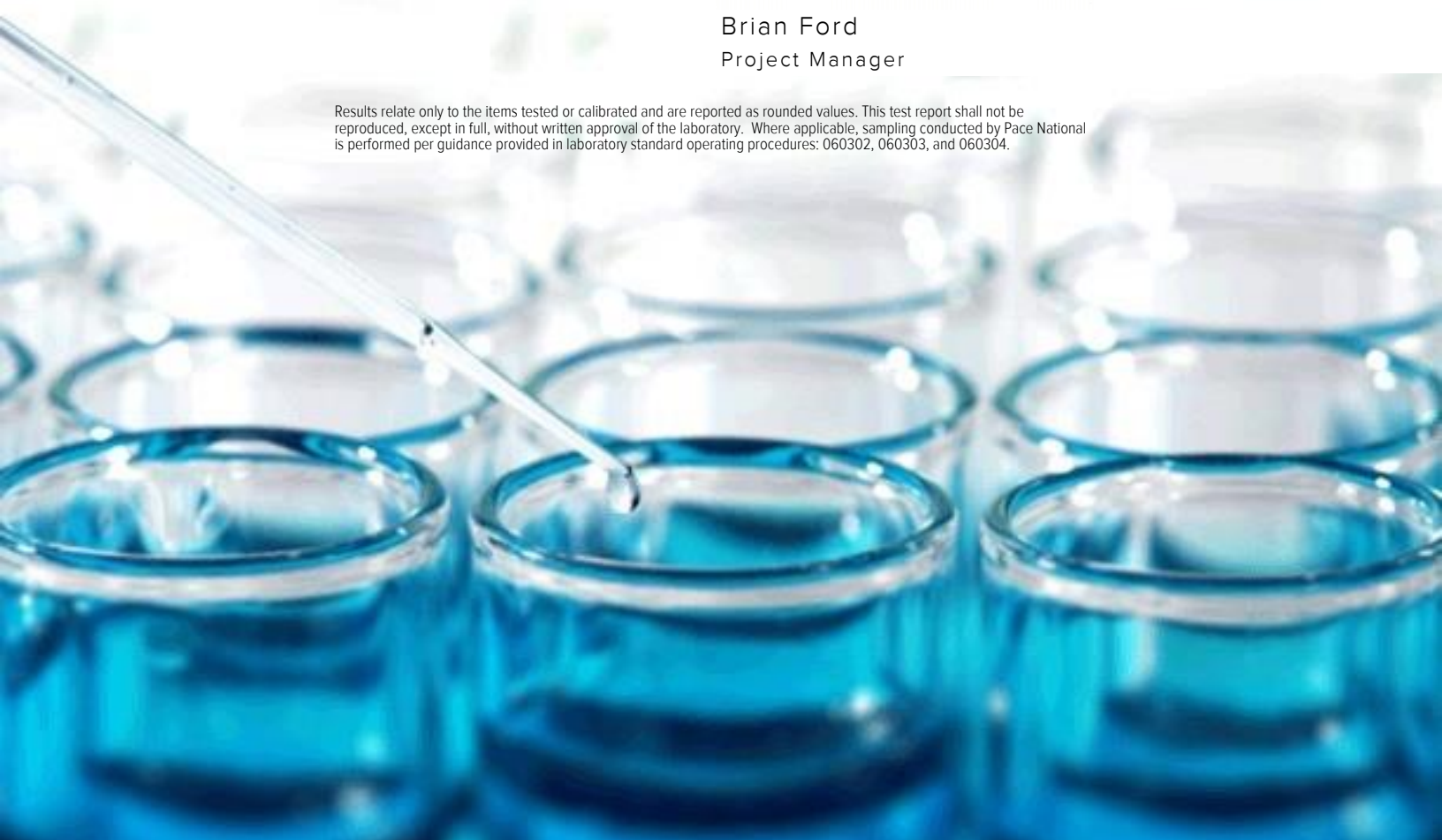
Sample Delivery Group: L1091958  
Samples Received: 04/24/2019  
Project Number: 1413.001.05.601  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

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.







|  |           |                |
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| <b>Cn: Case Narrative</b>                          | <b>4</b>  |                |
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# SAMPLE SUMMARY



## W-MW-02-042319 L1091958-01 GW

Collected by  
KZ/BH  
Collected date/time  
04/23/19 07:45  
Received date/time  
04/24/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011                | WG1273427 | 1        | 04/30/19 17:24        | 04/30/19 17:24     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1271082 | 1        | 04/24/19 23:40        | 04/24/19 23:40     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                      | WG1271096 | 1        | 04/24/19 17:57        | 04/24/19 17:57     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1271171 | 20       | 04/27/19 14:10        | 05/07/19 00:48     | LD      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1271515 | 1        | 04/25/19 15:43        | 04/25/19 15:43     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1271298 | 1        | 04/26/19 14:48        | 04/26/19 14:48     | MEL     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1273649 | 20       | 04/30/19 14:04        | 04/30/19 14:04     | MBF     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1271705 | 1        | 04/25/19 17:28        | 04/25/19 17:28     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1274056 | 10       | 05/01/19 02:42        | 05/01/19 02:42     | JHH     | Mt. Juliet, TN |

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## BB-8-042319 L1091958-02 GW

Collected by  
KZ/BH  
Collected date/time  
04/23/19 10:05  
Received date/time  
04/24/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011                | WG1273427 | 1        | 04/30/19 17:31        | 04/30/19 17:31     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1271082 | 1        | 04/25/19 00:09        | 04/25/19 00:09     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                      | WG1271096 | 1        | 04/24/19 18:18        | 04/24/19 18:18     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1271171 | 1        | 04/27/19 14:10        | 05/06/19 00:10     | LAT     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1271515 | 1        | 04/25/19 16:07        | 04/25/19 16:07     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1271298 | 1        | 04/26/19 14:51        | 04/26/19 14:51     | MEL     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1271705 | 1        | 04/25/19 17:48        | 04/25/19 17:48     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1274056 | 1        | 05/01/19 01:36        | 05/01/19 01:36     | JHH     | Mt. Juliet, TN |

## MW-155-042319 L1091958-03 GW

Collected by  
KZ/BH  
Collected date/time  
04/23/19 11:45  
Received date/time  
04/24/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1271515 | 1        | 04/25/19 16:31        | 04/25/19 16:31     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1271705 | 1        | 04/25/19 18:09        | 04/25/19 18:09     | BMB     | Mt. Juliet, TN |

## MW144-042319 L1091958-04 GW

Collected by  
KZ/BH  
Collected date/time  
04/23/19 14:05  
Received date/time  
04/24/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011                | WG1273427 | 1        | 04/30/19 17:37        | 04/30/19 17:37     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1271082 | 1        | 04/25/19 00:23        | 04/25/19 00:23     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1271082 | 5        | 04/25/19 00:37        | 04/25/19 00:37     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                      | WG1271096 | 1        | 04/24/19 19:53        | 04/24/19 19:53     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1271171 | 1        | 04/27/19 14:10        | 05/06/19 00:14     | LAT     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1271171 | 10       | 04/27/19 14:10        | 05/07/19 00:53     | LD      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1271515 | 1        | 04/25/19 16:55        | 04/25/19 16:55     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1271298 | 1        | 04/26/19 14:56        | 04/26/19 14:56     | MEL     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1274563 | 20       | 05/02/19 08:44        | 05/02/19 08:44     | DAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1271705 | 1        | 04/25/19 18:29        | 04/25/19 18:29     | BMB     | Mt. Juliet, TN |

## TRIP BLANK-042319 L1091958-05 GW

Collected by  
KZ/BH  
Collected date/time  
04/23/19 00:00  
Received date/time  
04/24/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1271515 | 1        | 04/25/19 12:56        | 04/25/19 12:56     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1271705 | 1        | 04/25/19 16:08        | 04/25/19 16:08     | BMB     | 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

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



Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 799000 |           | 2710 | 20000 | 1        | 04/30/2019 17:24 | <a href="#">WG1273427</a> |

Sample Narrative:

L1091958-01 WG1273427: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 86700  |           | 51.9 | 1000 | 1        | 04/24/2019 23:40 | <a href="#">WG1271082</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/24/2019 23:40 | <a href="#">WG1271082</a> |
| Sulfate  | U      |           | 77.4 | 5000 | 1        | 04/24/2019 23:40 | <a href="#">WG1271082</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 26100  |           | 102  | 1000 | 1        | 04/24/2019 17:57 | <a href="#">WG1271096</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Iron      | 13400  |           | 300  | 2000 | 20       | 05/07/2019 00:48 | <a href="#">WG1271171</a> |
| Manganese | 3430   |           | 5.00 | 100  | 20       | 05/07/2019 00:48 | <a href="#">WG1271171</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | 429    |           | 31.6 | 100      | 1        | 04/25/2019 15:43 | <a href="#">WG1271515</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111    |           |      | 78.0-120 |          | 04/25/2019 15:43 | <a href="#">WG1271515</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Methane | 10600  |           | 5.74  | 13.6 | 20       | 04/30/2019 14:04 | <a href="#">WG1273649</a> |
| Ethane  | 45.2   |           | 0.296 | 1.29 | 1        | 04/26/2019 14:48 | <a href="#">WG1271298</a> |
| Ethene  | 37.4   |           | 0.422 | 1.27 | 1        | 04/26/2019 14:48 | <a href="#">WG1271298</a> |

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

| Analyte              | Result | Qualifier  | MDL    | RDL   | Dilution | Analysis         | Batch                     |
|----------------------|--------|------------|--------|-------|----------|------------------|---------------------------|
|                      | ug/l   |            | ug/l   | ug/l  |          | date / time      |                           |
| Acetone              | 2.25   | J J0 J3 J4 | 1.05   | 25.0  | 1        | 04/25/2019 17:28 | <a href="#">WG1271705</a> |
| Acrylonitrile        | U      |            | 0.873  | 5.00  | 1        | 04/25/2019 17:28 | <a href="#">WG1271705</a> |
| Benzene              | U      |            | 0.0896 | 0.500 | 1        | 04/25/2019 17:28 | <a href="#">WG1271705</a> |
| Bromobenzene         | U      |            | 0.133  | 0.500 | 1        | 04/25/2019 17:28 | <a href="#">WG1271705</a> |
| Bromodichloromethane | U      |            | 0.0800 | 0.500 | 1        | 04/25/2019 17:28 | <a href="#">WG1271705</a> |
| Bromochloromethane   | U      |            | 0.145  | 0.500 | 1        | 04/25/2019 17:28 | <a href="#">WG1271705</a> |
| Bromoform            | U      |            | 0.186  | 0.500 | 1        | 04/25/2019 17:28 | <a href="#">WG1271705</a> |
| Bromomethane         | U      | J0         | 0.157  | 2.50  | 1        | 04/25/2019 17:28 | <a href="#">WG1271705</a> |
| n-Butylbenzene       | U      |            | 0.143  | 0.500 | 1        | 04/25/2019 17:28 | <a href="#">WG1271705</a> |
| sec-Butylbenzene     | U      |            | 0.134  | 0.500 | 1        | 04/25/2019 17:28 | <a href="#">WG1271705</a> |
| tert-Butylbenzene    | U      |            | 0.183  | 0.500 | 1        | 04/25/2019 17:28 | <a href="#">WG1271705</a> |
| Carbon disulfide     | 0.160  | J          | 0.101  | 0.500 | 1        | 04/25/2019 17:28 | <a href="#">WG1271705</a> |
| Carbon tetrachloride | U      |            | 0.159  | 0.500 | 1        | 04/25/2019 17:28 | <a href="#">WG1271705</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/23/19 07:45

L1091958

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Chloroethane                   | U              | <u>JO</u> | 0.141       | 2.50        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,1-Dichloroethene             | 1.96           |           | 0.188       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| cis-1,2-Dichloroethene         | 672            |           | 0.933       | 5.00        | 10       | 05/01/2019 02:42        | <a href="#">WG1274056</a> |
| trans-1,2-Dichloroethene       | 2.35           |           | 0.152       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 2-Hexanone                     | U              |           | 0.757       | 5.00        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Toluene                        | 0.560          |           | 0.412       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Trichloroethene                | 40.1           |           | 0.153       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Vinyl chloride            | 81.0           | <u>JO</u> | 0.118       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| (S) Toluene-d8            | 100            |           |             | 80.0-120    |          | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| (S) Toluene-d8            | 103            |           |             | 80.0-120    |          | 05/01/2019 02:42        | <a href="#">WG1274056</a> |
| (S) 4-Bromofluorobenzene  | 106            |           |             | 77.0-126    |          | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| (S) 4-Bromofluorobenzene  | 99.6           |           |             | 77.0-126    |          | 05/01/2019 02:42        | <a href="#">WG1274056</a> |
| (S) 1,2-Dichloroethane-d4 | 93.5           |           |             | 70.0-130    |          | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| (S) 1,2-Dichloroethane-d4 | 100            |           |             | 70.0-130    |          | 05/01/2019 02:42        | <a href="#">WG1274056</a> |

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 | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 227000 |           | 2710 | 20000 | 1        | 04/30/2019 17:31 | <a href="#">WG1273427</a> |

## Sample Narrative:

L1091958-02 WG1273427: Endpoint pH 4.5 headspace

## Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 28100  |           | 51.9 | 1000 | 1        | 04/25/2019 00:09 | <a href="#">WG1271082</a> |
| Nitrate  | 2770   |           | 22.7 | 100  | 1        | 04/25/2019 00:09 | <a href="#">WG1271082</a> |
| Sulfate  | 44400  |           | 77.4 | 5000 | 1        | 04/25/2019 00:09 | <a href="#">WG1271082</a> |

## Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 2710   | <u>B</u>  | 102  | 1000 | 1        | 04/24/2019 18:18 | <a href="#">WG1271096</a> |

## Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 315    |           | 15.0  | 100  | 1        | 05/06/2019 00:10 | <a href="#">WG1271171</a> |
| Manganese | 63.7   |           | 0.250 | 5.00 | 1        | 05/06/2019 00:10 | <a href="#">WG1271171</a> |

## Volatile Organic Compounds (GC) by Method NWTPHGX

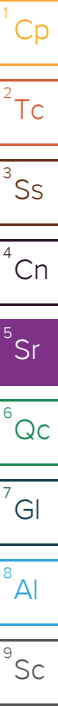
| Analyte                            | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|------------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                    | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH      | U      |           | 31.6 | 100      | 1        | 04/25/2019 16:07 | <a href="#">WG1271515</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 112    |           |      | 78.0-120 |          | 04/25/2019 16:07 | <a href="#">WG1271515</a> |

## Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | U      |           | 0.287 | 0.678 | 1        | 04/26/2019 14:51 | <a href="#">WG1271298</a> |
| Ethane  | U      |           | 0.296 | 1.29  | 1        | 04/26/2019 14:51 | <a href="#">WG1271298</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 04/26/2019 14:51 | <a href="#">WG1271298</a> |

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

| Analyte              | Result | Qualifier         | MDL    | RDL   | Dilution | Analysis         | Batch                     |
|----------------------|--------|-------------------|--------|-------|----------|------------------|---------------------------|
|                      | ug/l   |                   | ug/l   | ug/l  |          | date / time      |                           |
| Acetone              | 2.03   | <u>J J0 J3 J4</u> | 1.05   | 25.0  | 1        | 04/25/2019 17:48 | <a href="#">WG1271705</a> |
| Acrylonitrile        | U      |                   | 0.873  | 5.00  | 1        | 04/25/2019 17:48 | <a href="#">WG1271705</a> |
| Benzene              | U      |                   | 0.0896 | 0.500 | 1        | 04/25/2019 17:48 | <a href="#">WG1271705</a> |
| Bromobenzene         | U      |                   | 0.133  | 0.500 | 1        | 04/25/2019 17:48 | <a href="#">WG1271705</a> |
| Bromodichloromethane | U      |                   | 0.0800 | 0.500 | 1        | 04/25/2019 17:48 | <a href="#">WG1271705</a> |
| Bromochloromethane   | U      |                   | 0.145  | 0.500 | 1        | 04/25/2019 17:48 | <a href="#">WG1271705</a> |
| Bromoform            | U      |                   | 0.186  | 0.500 | 1        | 04/25/2019 17:48 | <a href="#">WG1271705</a> |
| Bromomethane         | U      | <u>J0</u>         | 0.157  | 2.50  | 1        | 04/25/2019 17:48 | <a href="#">WG1271705</a> |
| n-Butylbenzene       | U      |                   | 0.143  | 0.500 | 1        | 04/25/2019 17:48 | <a href="#">WG1271705</a> |
| sec-Butylbenzene     | U      |                   | 0.134  | 0.500 | 1        | 04/25/2019 17:48 | <a href="#">WG1271705</a> |
| tert-Butylbenzene    | U      |                   | 0.183  | 0.500 | 1        | 04/25/2019 17:48 | <a href="#">WG1271705</a> |
| Carbon disulfide     | U      |                   | 0.101  | 0.500 | 1        | 04/25/2019 17:48 | <a href="#">WG1271705</a> |
| Carbon tetrachloride | U      |                   | 0.159  | 0.500 | 1        | 04/25/2019 17:48 | <a href="#">WG1271705</a> |





Collected date/time: 04/23/19 10:05

L1091958

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Chloroethane                   | U              | <u>JO</u> | 0.141       | 2.50        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,1-Dichloroethene             | U              |           | 0.188       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| cis-1,2-Dichloroethene         | 7.57           |           | 0.0933      | 0.500       | 1        | 05/01/2019 01:36        | <a href="#">WG1274056</a> |
| trans-1,2-Dichloroethene       | U              |           | 0.152       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 2-Hexanone                     | U              |           | 0.757       | 5.00        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Tetrachloroethene              | 48.8           |           | 0.199       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Trichloroethene                | 9.09           |           | 0.153       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Vinyl chloride            | U              | <u>JO</u> | 0.118       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| (S) Toluene-d8            | 101            |           |             | 80.0-120    |          | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| (S) Toluene-d8            | 103            |           |             | 80.0-120    |          | 05/01/2019 01:36        | <a href="#">WG1274056</a> |
| (S) 4-Bromofluorobenzene  | 104            |           |             | 77.0-126    |          | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| (S) 4-Bromofluorobenzene  | 101            |           |             | 77.0-126    |          | 05/01/2019 01:36        | <a href="#">WG1274056</a> |
| (S) 1,2-Dichloroethane-d4 | 108            |           |             | 70.0-130    |          | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| (S) 1,2-Dichloroethane-d4 | 102            |           |             | 70.0-130    |          | 05/01/2019 01:36        | <a href="#">WG1274056</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | U              |           | 31.6        | 100         | 1        | 04/25/2019 16:31        | <a href="#">WG1271515</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111            |           |             | 78.0-120    |          | 04/25/2019 16:31        | <a href="#">WG1271515</a> |

- 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<br>ug/l | Qualifier         | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-------------------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | 1.86           | <u>J J0 J3 J4</u> | 1.05        | 25.0        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Acrylonitrile               | U              |                   | 0.873       | 5.00        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Benzene                     | U              |                   | 0.0896      | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Bromobenzene                | U              |                   | 0.133       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Bromodichloromethane        | U              |                   | 0.0800      | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Bromochloromethane          | U              |                   | 0.145       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Bromoform                   | U              |                   | 0.186       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Bromomethane                | U              | <u>J0</u>         | 0.157       | 2.50        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| n-Butylbenzene              | U              |                   | 0.143       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| sec-Butylbenzene            | U              |                   | 0.134       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| tert-Butylbenzene           | U              |                   | 0.183       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Carbon disulfide            | U              |                   | 0.101       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Carbon tetrachloride        | U              |                   | 0.159       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Chlorobenzene               | U              |                   | 0.140       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Chlorodibromomethane        | U              |                   | 0.128       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Chloroethane                | U              | <u>J0</u>         | 0.141       | 2.50        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Chloroform                  | U              |                   | 0.0860      | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Chloromethane               | U              |                   | 0.153       | 1.25        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 2-Chlorotoluene             | U              |                   | 0.111       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 4-Chlorotoluene             | U              |                   | 0.0972      | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,2-Dibromo-3-Chloropropane | U              |                   | 0.325       | 2.50        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,2-Dibromoethane           | U              |                   | 0.193       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Dibromomethane              | U              |                   | 0.117       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,2-Dichlorobenzene         | U              |                   | 0.101       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,3-Dichlorobenzene         | U              |                   | 0.130       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,4-Dichlorobenzene         | U              |                   | 0.121       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Dichlorodifluoromethane     | U              |                   | 0.127       | 2.50        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,1-Dichloroethane          | U              |                   | 0.114       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,2-Dichloroethane          | U              |                   | 0.108       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,1-Dichloroethene          | 0.249          | <u>J</u>          | 0.188       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| cis-1,2-Dichloroethene      | 71.9           |                   | 0.0933      | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| trans-1,2-Dichloroethene    | U              |                   | 0.152       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,2-Dichloropropane         | U              |                   | 0.190       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,1-Dichloropropene         | U              |                   | 0.128       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,3-Dichloropropane         | U              |                   | 0.147       | 1.00        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| cis-1,3-Dichloropropene     | U              |                   | 0.0976      | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| trans-1,3-Dichloropropene   | U              |                   | 0.222       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| trans-1,4-Dichloro-2-butene | U              |                   | 0.257       | 5.00        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 2,2-Dichloropropane         | U              |                   | 0.0929      | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Di-isopropyl ether          | U              |                   | 0.0924      | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Ethylbenzene                | U              |                   | 0.158       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Hexachloro-1,3-butadiene    | U              |                   | 0.157       | 1.00        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 2-Hexanone                  | U              |                   | 0.757       | 5.00        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| n-Hexane                    | U              |                   | 0.305       | 5.00        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Iodomethane                 | U              |                   | 0.377       | 10.0        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Isopropylbenzene            | U              |                   | 0.126       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| p-Isopropyltoluene          | U              |                   | 0.138       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 2-Butanone (MEK)            | U              |                   | 1.28        | 5.00        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |



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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Tetrachloroethene              | 14.6           |           | 0.199       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Trichloroethene                | 4.75           |           | 0.153       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Vinyl acetate                  | U              |           | 0.645       | 5.00        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Vinyl chloride                 | 6.54           | <u>JO</u> | 0.118       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| (S) Toluene-d8                 | 101            |           |             | 80.0-120    |          | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| (S) 4-Bromofluorobenzene       | 104            |           |             | 77.0-126    |          | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| (S) 1,2-Dichloroethane-d4      | 93.4           |           |             | 70.0-130    |          | 04/25/2019 18:09        | <a href="#">WG1271705</a> |

- 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 | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 733000 |           | 2710 | 20000 | 1        | 04/30/2019 17:37 | <a href="#">WG1273427</a> |

Sample Narrative:

L1091958-04 WG1273427: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 144000 |           | 260  | 5000 | 5        | 04/25/2019 00:37 | <a href="#">WG1271082</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/25/2019 00:23 | <a href="#">WG1271082</a> |
| Sulfate  | U      |           | 77.4 | 5000 | 1        | 04/25/2019 00:23 | <a href="#">WG1271082</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 11400  |           | 102  | 1000 | 1        | 04/24/2019 19:53 | <a href="#">WG1271096</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Iron      | 1220   |           | 15.0 | 100  | 1        | 05/06/2019 00:14 | <a href="#">WG1271171</a> |
| Manganese | 1480   |           | 2.50 | 50.0 | 10       | 05/07/2019 00:53 | <a href="#">WG1271171</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 04/25/2019 16:55 | <a href="#">WG1271515</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111    |           |      | 78.0-120 |          | 04/25/2019 16:55 | <a href="#">WG1271515</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Methane | 13000  |           | 5.74  | 13.6 | 20       | 05/02/2019 08:44 | <a href="#">WG1274563</a> |
| Ethane  | 771    |           | 0.296 | 1.29 | 1        | 04/26/2019 14:56 | <a href="#">WG1271298</a> |
| Ethene  | 699    |           | 0.422 | 1.27 | 1        | 04/26/2019 14:56 | <a href="#">WG1271298</a> |

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

| Analyte              | Result | Qualifier  | MDL    | RDL   | Dilution | Analysis         | Batch                     |
|----------------------|--------|------------|--------|-------|----------|------------------|---------------------------|
|                      | ug/l   |            | ug/l   | ug/l  |          | date / time      |                           |
| Acetone              | 2.38   | J JO J3 J4 | 1.05   | 25.0  | 1        | 04/25/2019 18:29 | <a href="#">WG1271705</a> |
| Acrylonitrile        | U      |            | 0.873  | 5.00  | 1        | 04/25/2019 18:29 | <a href="#">WG1271705</a> |
| Benzene              | U      |            | 0.0896 | 0.500 | 1        | 04/25/2019 18:29 | <a href="#">WG1271705</a> |
| Bromobenzene         | U      |            | 0.133  | 0.500 | 1        | 04/25/2019 18:29 | <a href="#">WG1271705</a> |
| Bromodichloromethane | U      |            | 0.0800 | 0.500 | 1        | 04/25/2019 18:29 | <a href="#">WG1271705</a> |
| Bromochloromethane   | U      |            | 0.145  | 0.500 | 1        | 04/25/2019 18:29 | <a href="#">WG1271705</a> |
| Bromoform            | U      |            | 0.186  | 0.500 | 1        | 04/25/2019 18:29 | <a href="#">WG1271705</a> |
| Bromomethane         | U      | JO         | 0.157  | 2.50  | 1        | 04/25/2019 18:29 | <a href="#">WG1271705</a> |
| n-Butylbenzene       | U      |            | 0.143  | 0.500 | 1        | 04/25/2019 18:29 | <a href="#">WG1271705</a> |
| sec-Butylbenzene     | U      |            | 0.134  | 0.500 | 1        | 04/25/2019 18:29 | <a href="#">WG1271705</a> |
| tert-Butylbenzene    | U      |            | 0.183  | 0.500 | 1        | 04/25/2019 18:29 | <a href="#">WG1271705</a> |
| Carbon disulfide     | 0.210  | J          | 0.101  | 0.500 | 1        | 04/25/2019 18:29 | <a href="#">WG1271705</a> |
| Carbon tetrachloride | U      |            | 0.159  | 0.500 | 1        | 04/25/2019 18:29 | <a href="#">WG1271705</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/23/19 14:05

L1091958

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Chloroethane                   | U              | <u>JO</u> | 0.141       | 2.50        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,1-Dichloroethene             | U              |           | 0.188       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| cis-1,2-Dichloroethene         | 4.09           |           | 0.0933      | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| trans-1,2-Dichloroethene       | 0.472          | <u>J</u>  | 0.152       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 2-Hexanone                     | U              |           | 0.757       | 5.00        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Trichloroethene                | 0.158          | <u>J</u>  | 0.153       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|----------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate                    | U              |           | 0.645       | 5.00        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Vinyl chloride                   | 7.30           | <u>JO</u> | 0.118       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Xylenes, Total                   | U              |           | 0.316       | 1.50        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| <i>(S) Toluene-d8</i>            | 101            |           |             | 80.0-120    |          | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| <i>(S) 4-Bromofluorobenzene</i>  | 104            |           |             | 77.0-126    |          | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| <i>(S) 1,2-Dichloroethane-d4</i> | 95.9           |           |             | 70.0-130    |          | 04/25/2019 18:29        | <a href="#">WG1271705</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | U              |           | 31.6        | 100         | 1        | 04/25/2019 12:56        | <a href="#">WG1271515</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111            |           |             | 78.0-120    |          | 04/25/2019 12:56        | <a href="#">WG1271515</a> |

1 Cp

2 Tc

3 Ss

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

| Analyte                     | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | U              | J3 J4     | 1.05        | 25.0        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Acrylonitrile               | U              |           | 0.873       | 5.00        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Benzene                     | U              |           | 0.0896      | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Bromobenzene                | U              |           | 0.133       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Bromodichloromethane        | U              |           | 0.0800      | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Bromochloromethane          | U              |           | 0.145       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Bromoform                   | U              |           | 0.186       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Bromomethane                | U              | JO        | 0.157       | 2.50        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| n-Butylbenzene              | U              |           | 0.143       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| sec-Butylbenzene            | U              |           | 0.134       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| tert-Butylbenzene           | U              |           | 0.183       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Carbon disulfide            | U              |           | 0.101       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Carbon tetrachloride        | U              |           | 0.159       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Chlorobenzene               | U              |           | 0.140       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Chlorodibromomethane        | U              |           | 0.128       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Chloroethane                | U              | JO        | 0.141       | 2.50        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Chloroform                  | U              |           | 0.0860      | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Chloromethane               | U              |           | 0.153       | 1.25        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 2-Chlorotoluene             | U              |           | 0.111       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 4-Chlorotoluene             | U              |           | 0.0972      | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,2-Dibromo-3-Chloropropane | U              |           | 0.325       | 2.50        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,2-Dibromoethane           | U              |           | 0.193       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Dibromomethane              | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,2-Dichlorobenzene         | U              |           | 0.101       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,3-Dichlorobenzene         | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,4-Dichlorobenzene         | U              |           | 0.121       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Dichlorodifluoromethane     | U              |           | 0.127       | 2.50        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,1-Dichloroethane          | U              |           | 0.114       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,2-Dichloroethane          | U              |           | 0.108       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,1-Dichloroethene          | U              |           | 0.188       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| cis-1,2-Dichloroethene      | U              |           | 0.0933      | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| trans-1,2-Dichloroethene    | U              |           | 0.152       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,2-Dichloropropane         | U              |           | 0.190       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,1-Dichloropropene         | U              |           | 0.128       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,3-Dichloropropane         | U              |           | 0.147       | 1.00        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| cis-1,3-Dichloropropene     | U              |           | 0.0976      | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| trans-1,3-Dichloropropene   | U              |           | 0.222       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| trans-1,4-Dichloro-2-butene | U              |           | 0.257       | 5.00        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 2,2-Dichloropropane         | U              |           | 0.0929      | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Di-isopropyl ether          | U              |           | 0.0924      | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Ethylbenzene                | U              |           | 0.158       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Hexachloro-1,3-butadiene    | U              |           | 0.157       | 1.00        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 2-Hexanone                  | U              |           | 0.757       | 5.00        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| n-Hexane                    | U              |           | 0.305       | 5.00        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Iodomethane                 | U              |           | 0.377       | 10.0        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Isopropylbenzene            | U              |           | 0.126       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| p-Isopropyltoluene          | U              |           | 0.138       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 2-Butanone (MEK)            | U              |           | 1.28        | 5.00        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Vinyl acetate                  | U              |           | 0.645       | 5.00        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Vinyl chloride                 | U              | <u>JO</u> | 0.118       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| (S) Toluene-d8                 | 100            |           |             | 80.0-120    |          | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| (S) 4-Bromofluorobenzene       | 104            |           |             | 77.0-126    |          | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| (S) 1,2-Dichloroethane-d4      | 92.3           |           |             | 70.0-130    |          | 04/25/2019 16:08        | <a href="#">WG1271705</a> |

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





Method Blank (MB)

(MB) R3406989-1 04/30/19 16:41

| Analyte    | MB Result | MB Qualifier | MB MDL | MB RDL |
|------------|-----------|--------------|--------|--------|
| Alkalinity | 3360      | ↓            | 2710   | 20000  |

Sample Narrative:

BLANK: Endpoint pH 4.5

L1091944-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1091944-01 04/30/19 16:47 • (DUP) R3406989-2 04/30/19 16:54

| Analyte    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------|-----------------|------------|----------|---------|---------------|----------------|
| Alkalinity | 302000          | 304000     | 1        | 0.663   |               | 20             |

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

L1092381-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1092381-01 04/30/19 19:25 • (DUP) R3406989-4 04/30/19 19:32

| Analyte    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------|-----------------|------------|----------|---------|---------------|----------------|
| Alkalinity | 1540000         | 1520000    | 1        | 1.19    |               | 20             |

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3406989-3 04/30/19 17:52

| Analyte    | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|------------|--------------|------------|----------|-------------|---------------|
| Alkalinity | 100000       | 102000     | 102      | 85.0-115    |               |

Sample Narrative:

LCS: Endpoint pH 4.5

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3405147-1 04/24/19 16:57

| Analyte  | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------|-----------|--------------|--------|--------|
| Chloride | U         |              | 51.9   | 1000   |
| Nitrate  | 26.3      | J            | 22.7   | 100    |
| Sulfate  | U         |              | 77.4   | 5000   |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1091917-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1091917-03 04/24/19 18:23 • (DUP) R3405147-3 04/24/19 18:37

| Analyte  | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
| Chloride | 8410            | 8430       | 1        | 0.285   |               | 15             |
| Nitrate  | 893             | 900        | 1        | 0.714   |               | 15             |
| Sulfate  | 7530            | 7540       | 1        | 0.0770  |               | 15             |

L1091941-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1091941-04 04/24/19 21:44 • (DUP) R3405147-6 04/24/19 21:59

| Analyte  | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
| Chloride | U               | 0.000      | 1        | 0.000   |               | 15             |
| Nitrate  | U               | 0.000      | 1        | 0.000   |               | 15             |
| Sulfate  | U               | 0.000      | 1        | 0.000   |               | 15             |

Laboratory Control Sample (LCS)

(LCS) R3405147-2 04/24/19 17:12

| Analyte  | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------|--------------|------------|----------|-------------|---------------|
| Chloride | 40000        | 40200      | 101      | 80.0-120    |               |
| Nitrate  | 8000         | 8290       | 104      | 80.0-120    |               |
| Sulfate  | 40000        | 41100      | 103      | 80.0-120    |               |



L1091917-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1091917-03 04/24/19 18:23 • (MS) R3405147-4 04/24/19 18:51 • (MSD) R3405147-5 04/24/19 19:06

| Analyte  | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MSD Result<br>ug/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Chloride | 50000                | 8410                    | 58800             | 58300              | 101          | 99.7          | 1        | 80.0-120         |              |               | 0.943    | 15              |
| Nitrate  | 5000                 | 893                     | 5880              | 5830               | 99.6         | 98.7          | 1        | 80.0-120         |              |               | 0.777    | 15              |
| Sulfate  | 50000                | 7530                    | 57300             | 56700              | 99.5         | 98.4          | 1        | 80.0-120         |              |               | 0.931    | 15              |

L1091941-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1091941-04 04/24/19 21:44 • (MS) R3405147-7 04/24/19 22:13

| Analyte  | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MS Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier |
|----------|----------------------|-------------------------|-------------------|--------------|----------|------------------|--------------|
| Chloride | 50000                | U                       | 50700             | 101          | 1        | 80.0-120         |              |
| Nitrate  | 5000                 | U                       | 5050              | 101          | 1        | 80.0-120         |              |
| Sulfate  | 50000                | U                       | 50400             | 101          | 1        | 80.0-120         |              |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3405166-1 04/24/19 15:02

| Analyte                    | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------------------|-----------|--------------|--------|--------|
| TOC (Total Organic Carbon) | 485       | ↓            | 102    | 1000   |

1 Cp

2 Tc

3 Ss

L1091944-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1091944-05 04/24/19 17:18 • (DUP) R3405166-3 04/24/19 17:39

| Analyte                    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------------------------|-----------------|------------|----------|---------|---------------|----------------|
| TOC (Total Organic Carbon) | 117000          | 121000     | 5        | 2.77    |               | 20             |

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3405166-2 04/24/19 15:38

| Analyte                    | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------------------------|--------------|------------|----------|-------------|---------------|
| TOC (Total Organic Carbon) | 75000        | 70300      | 93.7     | 85.0-115    |               |

6 Qc

7 Gl

L1091958-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1091958-04 04/24/19 19:53 • (MS) R3405166-4 04/24/19 20:12 • (MSD) R3405166-5 04/24/19 20:31

| Analyte                    | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD  | RPD Limits |
|----------------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| TOC (Total Organic Carbon) | 50000        | 11400           | 59200     | 58100      | 95.5    | 93.3     | 1        | 80.0-120    |              |               | 1.83 | 20         |

8 Al

9 Sc



Method Blank (MB)

(MB) R3406516-1 04/30/19 00:01

| Analyte   | MB Result | MB Qualifier | MB MDL | MB RDL |
|-----------|-----------|--------------|--------|--------|
| Iron      | U         |              | 15.0   | 100    |
| Manganese | U         |              | 0.250  | 5.00   |

1 Cp

2 Tc

3 Ss

4 Cn

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

(LCS) R3406516-2 04/30/19 00:06 • (LCSD) R3406516-3 04/30/19 00:12

| Analyte   | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |
|-----------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| Iron      | 500          | 480        | 486         | 96.1     | 97.1      | 80.0-120    |               |                | 1.12 | 20         |
| Manganese | 50.0         | 45.7       | 46.5        | 91.3     | 93.0      | 80.0-120    |               |                | 1.80 | 20         |

5 Sr

6 Qc

L1092138-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1092138-03 04/30/19 00:17 • (MS) R3406516-5 04/30/19 00:28 • (MSD) R3406516-6 04/30/19 00:33

| Analyte   | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD  | RPD Limits |
|-----------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Iron      | 500          | 369             | 842       | 869        | 94.6    | 100      | 1        | 75.0-125    |              |               | 3.23 | 20         |
| Manganese | 50.0         | 17.0            | 62.8      | 65.9       | 91.6    | 97.9     | 1        | 75.0-125    |              |               | 4.85 | 20         |

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3405596-2 04/25/19 09:45

| Analyte                            | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| Gasoline Range<br>Organics-NWTPH   | U                 |              | 31.6           | 100            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 111               |              |                | 78.0-120       |

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3405596-1 04/25/19 08:57

| Analyte                            | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|----------------------|--------------------|---------------|------------------|---------------|
| Gasoline Range<br>Organics-NWTPH   | 5500                 | 5310               | 96.5          | 70.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                    | 103           | 78.0-120         |               |

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3405886-1 04/26/19 13:31

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------|-----------|--------------|--------|--------|
|         | ug/l      |              | ug/l   | 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

L1091915-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1091915-02 04/26/19 13:40 • (DUP) R3405886-2 04/26/19 14:13

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
|         | ug/l            | ug/l       |          | %       |               | %              |
| Methane | 248             | 245        | 1        | 1.48    |               | 20             |
| Ethane  | U               | 0.000      | 1        | 0.000   |               | 20             |
| Ethene  | U               | 0.000      | 1        | 0.000   |               | 20             |

L1091952-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1091952-01 04/26/19 14:46 • (DUP) R3405886-3 04/26/19 15:02

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
|         | 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) R3405886-4 04/26/19 15:04 • (LCSD) R3405886-5 04/26/19 15:10

| 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        | %        | %         | %           |               |                | %     | %          |
| Methane | 67.8         | 75.7       | 76.9        | 112      | 113       | 85.0-115    |               |                | 1.59  | 20         |
| Ethane  | 129          | 121        | 119         | 93.4     | 92.5      | 85.0-115    |               |                | 0.991 | 20         |
| Ethene  | 127          | 120        | 121         | 94.1     | 95.5      | 85.0-115    |               |                | 1.51  | 20         |



Method Blank (MB)

(MB) R3406766-1 04/30/19 13:42

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------|-----------|--------------|--------|--------|
| Methane | U         |              | 0.287  | 0.678  |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

L1092207-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1092207-05 04/30/19 14:07 • (DUP) R3406766-2 04/30/19 14:40

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
| Methane | U               | 0.000      | 1        | 0.000   |               | 20             |

7 Gl

8 Al

L1092404-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1092404-03 04/30/19 14:51 • (DUP) R3406766-3 04/30/19 15:31

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
| Methane | U               | 0.000      | 1        | 0.000   |               | 20             |

9 Sc

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

(LCS) R3406766-4 04/30/19 15:33 • (LCSD) R3406766-5 04/30/19 15:37

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |
|---------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| Methane | 67.8         | 76.5       | 77.6        | 113      | 114       | 85.0-115    |               |                | 1.40 | 20         |





Method Blank (MB)

(MB) R3407462-1 05/02/19 08:41

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------|-----------|--------------|--------|--------|
| Methane | U         |              | 0.287  | 0.678  |

1 Cp

2 Tc

3 Ss

4 Cn

L1092426-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1092426-09 05/02/19 09:09 • (DUP) R3407462-2 05/02/19 10:16

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
| Methane | U               | 0.000      | 1        | 0.000   |               | 20             |

5 Sr

6 Qc

L1092440-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1092440-05 05/02/19 11:12 • (DUP) R3407462-3 05/02/19 11:36

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
| Methane | 1720            | 1710       | 1        | 0.589   |               | 20             |

7 Gl

8 Al

9 Sc

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

(LCS) R3407462-4 05/02/19 11:40 • (LCSD) R3407462-5 05/02/19 11:52

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD   | RPD Limits |
|---------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
| Methane | 67.8         | 77.2       | 77.1        | 114      | 114       | 85.0-115    |               |                | 0.205 | 20         |



Method Blank (MB)

(MB) R3406794-3 04/25/19 10:03

| Analyte                     | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>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          |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3406794-3 04/25/19 10:03

| Analyte                        | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|--------------------------------|-------------------|--------------|----------------|----------------|
| Ethylbenzene                   | U                 |              | 0.158          | 0.500          |
| Hexachloro-1,3-butadiene       | 0.239             | 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                 | 101               |              |                | 80.0-120       |
| (S) 4-Bromofluorobenzene       | 105               |              |                | 77.0-126       |
| (S) 1,2-Dichloroethane-d4      | 94.7              |              |                | 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) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3406794-1 04/25/19 09:03 • (LCSD) R3406794-2 04/25/19 09:23

| Analyte                     | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Acetone                     | 125                  | 205                | 144                 | 164           | 115            | 19.0-160         | J4            | J3             | 34.8     | 27              |
| Acrylonitrile               | 125                  | 160                | 156                 | 128           | 125            | 55.0-149         |               |                | 2.36     | 20              |
| Benzene                     | 25.0                 | 26.0               | 26.1                | 104           | 104            | 70.0-123         |               |                | 0.383    | 20              |
| Bromobenzene                | 25.0                 | 23.4               | 23.6                | 93.5          | 94.5           | 73.0-121         |               |                | 1.10     | 20              |
| Bromodichloromethane        | 25.0                 | 22.3               | 22.3                | 89.3          | 89.2           | 75.0-120         |               |                | 0.142    | 20              |
| Bromochloromethane          | 25.0                 | 23.5               | 23.3                | 94.2          | 93.0           | 76.0-122         |               |                | 1.20     | 20              |
| Bromoform                   | 25.0                 | 26.4               | 27.0                | 106           | 108            | 68.0-132         |               |                | 2.26     | 20              |
| Bromomethane                | 25.0                 | 17.7               | 17.6                | 70.8          | 70.5           | 10.0-160         |               |                | 0.433    | 25              |
| n-Butylbenzene              | 25.0                 | 23.2               | 22.8                | 92.7          | 91.2           | 73.0-125         |               |                | 1.67     | 20              |
| sec-Butylbenzene            | 25.0                 | 23.9               | 23.3                | 95.6          | 93.1           | 75.0-125         |               |                | 2.69     | 20              |
| tert-Butylbenzene           | 25.0                 | 24.5               | 24.0                | 98.0          | 96.1           | 76.0-124         |               |                | 1.94     | 20              |
| Carbon disulfide            | 25.0                 | 28.4               | 31.0                | 113           | 124            | 61.0-128         |               |                | 8.82     | 20              |
| Carbon tetrachloride        | 25.0                 | 23.9               | 23.9                | 95.5          | 95.5           | 68.0-126         |               |                | 0.0359   | 20              |
| Chlorobenzene               | 25.0                 | 24.0               | 24.2                | 96.1          | 96.6           | 80.0-121         |               |                | 0.523    | 20              |
| Chlorodibromomethane        | 25.0                 | 23.5               | 24.0                | 94.2          | 96.0           | 77.0-125         |               |                | 1.90     | 20              |
| Chloroethane                | 25.0                 | 15.0               | 17.2                | 60.1          | 69.0           | 47.0-150         |               |                | 13.7     | 20              |
| Chloroform                  | 25.0                 | 22.0               | 21.9                | 87.8          | 87.8           | 73.0-120         |               |                | 0.0352   | 20              |
| Chloromethane               | 25.0                 | 26.3               | 26.2                | 105           | 105            | 41.0-142         |               |                | 0.338    | 20              |
| 2-Chlorotoluene             | 25.0                 | 23.1               | 22.8                | 92.6          | 91.0           | 76.0-123         |               |                | 1.66     | 20              |
| 4-Chlorotoluene             | 25.0                 | 23.4               | 23.2                | 93.5          | 93.0           | 75.0-122         |               |                | 0.522    | 20              |
| 1,2-Dibromo-3-Chloropropane | 25.0                 | 28.4               | 27.7                | 114           | 111            | 58.0-134         |               |                | 2.76     | 20              |
| 1,2-Dibromoethane           | 25.0                 | 23.3               | 23.7                | 93.0          | 94.8           | 80.0-122         |               |                | 1.90     | 20              |
| Dibromomethane              | 25.0                 | 22.7               | 22.5                | 90.7          | 90.0           | 80.0-120         |               |                | 0.716    | 20              |
| 1,2-Dichlorobenzene         | 25.0                 | 23.9               | 23.4                | 95.5          | 93.5           | 79.0-121         |               |                | 2.08     | 20              |
| 1,3-Dichlorobenzene         | 25.0                 | 23.5               | 23.2                | 94.0          | 93.0           | 79.0-120         |               |                | 1.05     | 20              |
| 1,4-Dichlorobenzene         | 25.0                 | 22.7               | 22.5                | 91.0          | 89.9           | 79.0-120         |               |                | 1.15     | 20              |
| Dichlorodifluoromethane     | 25.0                 | 26.3               | 26.2                | 105           | 105            | 51.0-149         |               |                | 0.238    | 20              |
| 1,1-Dichloroethane          | 25.0                 | 24.8               | 24.6                | 99.4          | 98.3           | 70.0-126         |               |                | 1.12     | 20              |
| 1,2-Dichloroethane          | 25.0                 | 20.8               | 20.8                | 83.1          | 83.1           | 70.0-128         |               |                | 0.0641   | 20              |
| 1,1-Dichloroethene          | 25.0                 | 25.0               | 25.4                | 100           | 102            | 71.0-124         |               |                | 1.62     | 20              |
| cis-1,2-Dichloroethene      | 25.0                 | 23.9               | 23.7                | 95.7          | 94.7           | 73.0-120         |               |                | 1.11     | 20              |
| trans-1,2-Dichloroethene    | 25.0                 | 24.9               | 24.9                | 99.6          | 99.4           | 73.0-120         |               |                | 0.115    | 20              |
| 1,2-Dichloropropane         | 25.0                 | 26.5               | 26.5                | 106           | 106            | 77.0-125         |               |                | 0.267    | 20              |
| 1,1-Dichloropropene         | 25.0                 | 24.9               | 24.8                | 99.4          | 99.1           | 74.0-126         |               |                | 0.298    | 20              |
| 1,3-Dichloropropane         | 25.0                 | 24.6               | 25.1                | 98.6          | 100            | 80.0-120         |               |                | 1.86     | 20              |
| cis-1,3-Dichloropropene     | 25.0                 | 24.0               | 24.2                | 96.2          | 96.7           | 80.0-123         |               |                | 0.513    | 20              |
| trans-1,3-Dichloropropene   | 25.0                 | 23.3               | 23.5                | 93.2          | 94.1           | 78.0-124         |               |                | 0.936    | 20              |
| trans-1,4-Dichloro-2-butene | 25.0                 | 20.7               | 19.7                | 83.0          | 78.6           | 33.0-144         |               |                | 5.42     | 20              |
| 2,2-Dichloropropane         | 25.0                 | 32.0               | 31.4                | 128           | 126            | 58.0-130         |               |                | 2.05     | 20              |
| Di-isopropyl ether          | 25.0                 | 27.7               | 27.6                | 111           | 110            | 58.0-138         |               |                | 0.601    | 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) R3406794-1 04/25/19 09:03 • (LCSD) R3406794-2 04/25/19 09:23

| Analyte                        | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|--------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Ethylbenzene                   | 25.0                 | 24.4               | 24.7                | 97.5          | 98.9           | 79.0-123         |               |                | 1.46     | 20              |
| Hexachloro-1,3-butadiene       | 25.0                 | 31.2               | 30.4                | 125           | 122            | 54.0-138         |               |                | 2.57     | 20              |
| 2-Hexanone                     | 125                  | 147                | 146                 | 117           | 117            | 67.0-149         |               |                | 0.700    | 20              |
| n-Hexane                       | 25.0                 | 29.2               | 28.6                | 117           | 114            | 57.0-133         |               |                | 2.29     | 20              |
| Iodomethane                    | 125                  | 134                | 128                 | 107           | 102            | 33.0-147         |               |                | 4.64     | 26              |
| Isopropylbenzene               | 25.0                 | 25.6               | 26.1                | 103           | 104            | 76.0-127         |               |                | 1.66     | 20              |
| p-Isopropyltoluene             | 25.0                 | 24.2               | 23.8                | 96.8          | 95.1           | 76.0-125         |               |                | 1.85     | 20              |
| 2-Butanone (MEK)               | 125                  | 165                | 156                 | 132           | 125            | 44.0-160         |               |                | 5.34     | 20              |
| Methylene Chloride             | 25.0                 | 24.7               | 24.5                | 98.8          | 98.1           | 67.0-120         |               |                | 0.726    | 20              |
| 4-Methyl-2-pentanone (MIBK)    | 125                  | 143                | 142                 | 114           | 114            | 68.0-142         |               |                | 0.369    | 20              |
| Methyl tert-butyl ether        | 25.0                 | 23.7               | 23.4                | 94.7          | 93.6           | 68.0-125         |               |                | 1.16     | 20              |
| Naphthalene                    | 25.0                 | 25.1               | 24.5                | 100           | 98.1           | 54.0-135         |               |                | 2.40     | 20              |
| n-Propylbenzene                | 25.0                 | 23.0               | 23.0                | 92.1          | 91.9           | 77.0-124         |               |                | 0.261    | 20              |
| Styrene                        | 25.0                 | 26.6               | 27.4                | 106           | 110            | 73.0-130         |               |                | 3.12     | 20              |
| 1,1,1,2-Tetrachloroethane      | 25.0                 | 24.1               | 24.0                | 96.2          | 96.2           | 75.0-125         |               |                | 0.0553   | 20              |
| 1,1,2,2-Tetrachloroethane      | 25.0                 | 22.8               | 22.7                | 91.3          | 90.8           | 65.0-130         |               |                | 0.553    | 20              |
| 1,1,2-Trichlorotrifluoroethane | 25.0                 | 23.4               | 24.1                | 93.6          | 96.5           | 69.0-132         |               |                | 3.14     | 20              |
| Tetrachloroethene              | 25.0                 | 25.8               | 25.8                | 103           | 103            | 72.0-132         |               |                | 0.287    | 20              |
| Toluene                        | 25.0                 | 25.9               | 26.1                | 103           | 104            | 79.0-120         |               |                | 0.981    | 20              |
| 1,2,3-Trichlorobenzene         | 25.0                 | 25.7               | 24.4                | 103           | 97.5           | 50.0-138         |               |                | 5.36     | 20              |
| 1,2,4-Trichlorobenzene         | 25.0                 | 26.6               | 25.2                | 107           | 101            | 57.0-137         |               |                | 5.53     | 20              |
| 1,1,1-Trichloroethane          | 25.0                 | 23.7               | 23.8                | 94.9          | 95.3           | 73.0-124         |               |                | 0.433    | 20              |
| 1,1,2-Trichloroethane          | 25.0                 | 22.8               | 22.6                | 91.3          | 90.4           | 80.0-120         |               |                | 0.971    | 20              |
| Trichloroethene                | 25.0                 | 25.1               | 25.2                | 100           | 101            | 78.0-124         |               |                | 0.572    | 20              |
| Trichlorofluoromethane         | 25.0                 | 15.2               | 16.5                | 60.9          | 65.9           | 59.0-147         |               |                | 7.93     | 20              |
| 1,2,3-Trichloropropane         | 25.0                 | 21.1               | 20.9                | 84.4          | 83.5           | 73.0-130         |               |                | 1.11     | 20              |
| 1,2,4-Trimethylbenzene         | 25.0                 | 22.8               | 22.6                | 91.2          | 90.5           | 76.0-121         |               |                | 0.774    | 20              |
| 1,2,3-Trimethylbenzene         | 25.0                 | 22.4               | 21.8                | 89.8          | 87.2           | 77.0-120         |               |                | 2.96     | 20              |
| 1,3,5-Trimethylbenzene         | 25.0                 | 23.4               | 22.6                | 93.5          | 90.5           | 76.0-122         |               |                | 3.16     | 20              |
| Vinyl acetate                  | 125                  | 119                | 120                 | 95.4          | 95.7           | 11.0-160         |               |                | 0.361    | 20              |
| Vinyl chloride                 | 25.0                 | 17.8               | 17.9                | 71.3          | 71.7           | 67.0-131         |               |                | 0.499    | 20              |
| Xylenes, Total                 | 75.0                 | 74.9               | 75.0                | 99.9          | 100            | 79.0-123         |               |                | 0.133    | 20              |
| (S) Toluene-d8                 |                      |                    |                     | 101           | 100            | 80.0-120         |               |                |          |                 |
| (S) 4-Bromofluorobenzene       |                      |                    |                     | 105           | 107            | 77.0-126         |               |                |          |                 |
| (S) 1,2-Dichloroethane-d4      |                      |                    |                     | 92.7          | 99.9           | 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) R3406890-2 05/01/19 01:15

| Analyte                   | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|---------------------------|-------------------|--------------|----------------|----------------|
| cis-1,2-Dichloroethene    | U                 |              | 0.0933         | 0.500          |
| (S) Toluene-d8            | 104               |              |                | 80.0-120       |
| (S) 4-Bromofluorobenzene  | 98.3              |              |                | 77.0-126       |
| (S) 1,2-Dichloroethane-d4 | 102               |              |                | 70.0-130       |

Laboratory Control Sample (LCS)

(LCS) R3406890-1 05/01/19 00:32

| Analyte                   | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|---------------------------|----------------------|--------------------|---------------|------------------|---------------|
| cis-1,2-Dichloroethene    | 25.0                 | 29.9               | 120           | 73.0-120         |               |
| (S) Toluene-d8            |                      |                    | 102           | 80.0-120         |               |
| (S) 4-Bromofluorobenzene  |                      |                    | 100           | 77.0-126         |               |
| (S) 1,2-Dichloroethane-d4 |                      |                    | 103           | 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.  |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc

## 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.   |
| J4 | The associated batch QC was outside the established quality control range for accuracy.  |



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 <sup>1</sup>     | n/a              |
| Colorado                | TN00003     | New York                    | 11742            |
| Connecticut             | PH-0197     | North Carolina              | Env375           |
| Florida                 | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                 | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>    | 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 <sup>1,6</sup> | 90010       | South Carolina              | 84004            |
| Kentucky <sup>2</sup>   | 16          | South Dakota                | n/a              |
| Louisiana               | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana <sup>1</sup>  | LA180010    | Texas                       | T104704245-18-15 |
| Maine                   | TN0002      | Texas <sup>5</sup>          | 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             |

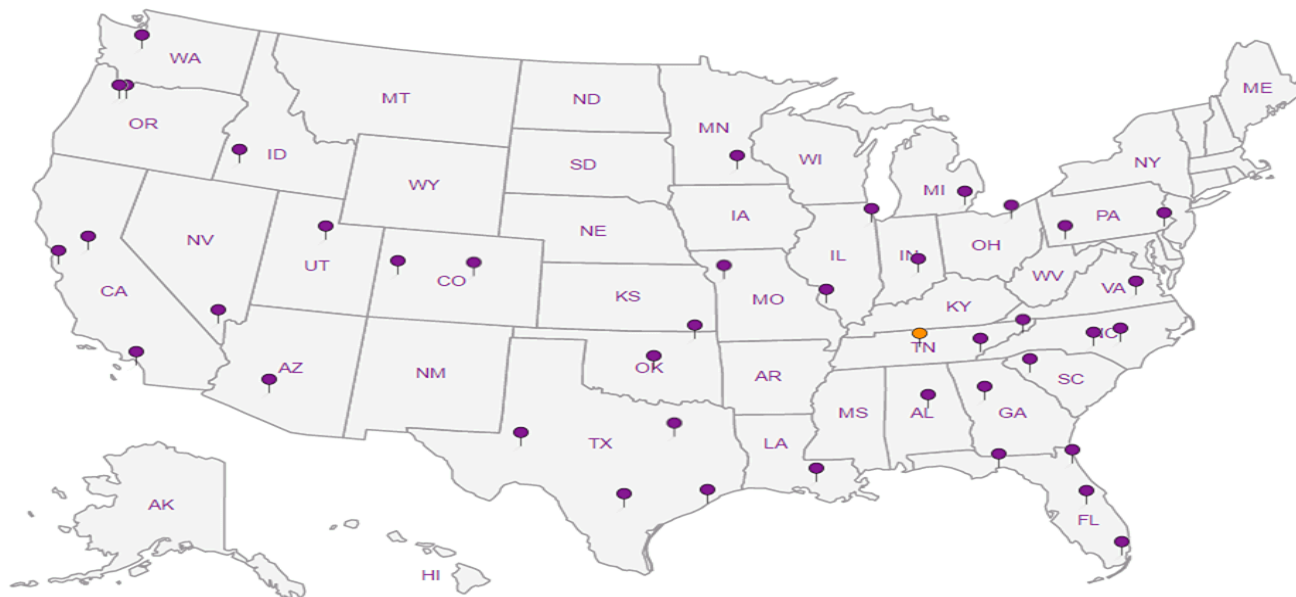
## Third Party Federal Accreditations

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

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



**PES Environmental, Inc.- WA**

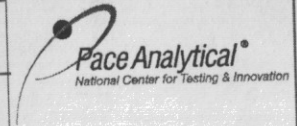
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing Information:

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

Pres  
Chk

Analysis / Container / Preservative



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; **KUICK@PESENV.COM**  
baldeman@pesenv.com; **KSPRINGSTEAD@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):  
**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  Y

No.  
of  
Cnts

| Sample ID               | Comp/Grab       | Matrix *      | Depth          | Date               | Time  | No. of Cnts  |
|-------------------------|-----------------|---------------|----------------|--------------------|-------|--------------|
| <del>MW103-042219</del> | <del>Grab</del> | <del>GW</del> | <del>108</del> | <del>4-22-19</del> |       | <del>3</del> |
| <del>MW111-042219</del> | <del>Grab</del> | <del>GW</del> | <del>75</del>  | <del>4-22-19</del> |       | <del>3</del> |
| W-MW-02-042319          |                 | GW            | 75             | 4-23-19            | 0745  | 12           |
| MW104-042319            |                 | GW            | 75             |                    | 0835  | 12           |
| BB-8-042319             |                 | GW            | 35             |                    | 1005  | 12           |
| MW105-042319            |                 | GW            | 135            |                    | 1035  | 12           |
| MW-155-042319           |                 | GW            | 25             |                    | 11:45 | 12           |
| MW147-042319            |                 | GW            | 75             |                    | 1400  | 12           |
| MW144-042319            | ↓               | GW            | 45             | ↓                  | 1405  | 12           |
| TRIP BLANK-042319       |                 | GW            |                |                    |       |              |

NWT PHGX 40ml Amb HCl  
 VOCs (V8260LLC) 40ml Amb-HCl  
 RSK-175 Low Level  
 Alkalinity  
 TPCMS - Form / Monogram  
 FC - Chloride / Nitrate  
 TOC

L# **1101958**

Table #

Acctnum: **PESENVSWA**

Template: **T146397**

Prelogin: **P694557**

TSR: **110 - Brian Ford**

PB: **2/15/19 mc**

Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

K2  
 K2  
 K2  
 K2  
 K2  
 K2  
 K2

H2 SCREEN: < 0.5 mR/hr  
 -01  
 -02  
 -03  
 -04  
 -05

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

Remarks: **Tier 2 QA/QC for all**

pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via:  
UPS  FedEx  Courier

Tracking # **4876108690**

Sample Receipt Checklist

|                               |                                       |                            |                            |
|-------------------------------|---------------------------------------|----------------------------|----------------------------|
| COC Seal Present/Intact:      | <input type="checkbox"/> NP           | <input type="checkbox"/> Y | <input type="checkbox"/> N |
| COC Signed/Accurate:          | <input type="checkbox"/> Y            | <input type="checkbox"/> N |                            |
| Bottles arrive intact:        | <input type="checkbox"/> Y            | <input type="checkbox"/> N |                            |
| Correct bottles used:         | <input type="checkbox"/> Y            | <input type="checkbox"/> N |                            |
| Sufficient volume sent:       | <input type="checkbox"/> Y            | <input type="checkbox"/> N |                            |
| If Applicable                 |                                       |                            |                            |
| VOA Zero Headspace:           | <input type="checkbox"/> Y            | <input type="checkbox"/> N |                            |
| Preservation Correct/Checked: | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |                            |

Relinquished by: (Signature)  
*[Signature]*

Date: **23 April 2019**

Time: **1500**

Relinquished by: (Signature)  
*[Signature]*

Date: **04-23-19**

Time: **1700**

Relinquished by: (Signature)  
*[Signature]*

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Received by: (Signature)  
*[Signature]*

Received by: (Signature)  
*[Signature]*

Received for lab by: (Signature)  
*[Signature]*

Trip Blank Received:  Yes /  No  
HCl / MeOH  
TBR

Temp: \_\_\_\_\_ °C

Bottles Received: **48**

Date: **4/24/19**

Time: **0845**

If preservation required by Login: Date/Time

Hold:

Condition: NCF /  OK

## Brian Ford

---

**From:** Kim Vik <Kvik@pesenv.com>  
**Sent:** Wednesday, April 24, 2019 11:51 AM  
**To:** Brian Ford  
**Cc:** Bill Haldeman; Karsten Springstead  
**Subject:** American Linen - Groundwater Samples - COC - CORRECTION  
**Attachments:** COC\_20190424.pdf

**Importance:** High

Hi Brian,  
I was reviewing the COC for the samples that were shipped to you yesterday (see attached) and I need to make some corrections. They are shown on the mark up attached, but will write them here too:

Sample MW-155-042319 should be analyzed for VOCs and gasoline only  
Sample MW103-042219 should be analyzed for VOCs only  
Sample MW111-042219 should be analyzed for VOCs only  
Sample MW104-042319 should also be analyzed for gasoline (add that analysis)  
Sample MW105-042319 should also be analyzed for gasoline (add that analysis)  
Sample MW147-042319 should also be analyzed for gasoline (add that analysis)

Let me know if you have any questions.

Thanks!

**Kim Vik, L.G.**  
Senior Geologist

**PES Environmental, Inc.**  
1215 Fourth Avenue, Suite 1350  
Seattle, Washington 98161-1012  
[kvik@pesenv.com](mailto:kvik@pesenv.com)

**Office: (206) 529-3980, Ext. 110**



Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 799000 |           | 2710 | 20000 | 1        | 04/30/2019 17:24 | <a href="#">WG1273427</a> |

Sample Narrative:

L1091958-01 WG1273427: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 86700  |           | 51.9 | 1000 | 1        | 04/24/2019 23:40 | <a href="#">WG1271082</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/24/2019 23:40 | <a href="#">WG1271082</a> |
| Sulfate  | U      |           | 77.4 | 5000 | 1        | 04/24/2019 23:40 | <a href="#">WG1271082</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 26100  |           | 102  | 1000 | 1        | 04/24/2019 17:57 | <a href="#">WG1271096</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Iron      | 13400  |           | 300  | 2000 | 20       | 05/07/2019 00:48 | <a href="#">WG1271171</a> |
| Manganese | 3430   |           | 5.00 | 100  | 20       | 05/07/2019 00:48 | <a href="#">WG1271171</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | 429    | J+        | 31.6 | 100      | 1        | 04/25/2019 15:43 | <a href="#">WG1271515</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111    |           |      | 78.0-120 |          | 04/25/2019 15:43 | <a href="#">WG1271515</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Methane | 10600  |           | 5.74  | 13.6 | 20       | 04/30/2019 14:04 | <a href="#">WG1273649</a> |
| Ethane  | 45.2   |           | 0.296 | 1.29 | 1        | 04/26/2019 14:48 | <a href="#">WG1271298</a> |
| Ethene  | 37.4   |           | 0.422 | 1.27 | 1        | 04/26/2019 14:48 | <a href="#">WG1271298</a> |

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

| Analyte              | Result | Qualifier | MDL        | RDL   | Dilution | Analysis         | Batch                     |                           |
|----------------------|--------|-----------|------------|-------|----------|------------------|---------------------------|---------------------------|
|                      | ug/l   |           | ug/l       | ug/l  |          | date / time      |                           |                           |
| Acetone              | 2.25   | J         | J J0 J3 J4 | 1.05  | 25.0     | 1                | 04/25/2019 17:28          | <a href="#">WG1271705</a> |
| Acrylonitrile        | U      |           | 0.873      | 5.00  | 1        | 04/25/2019 17:28 | <a href="#">WG1271705</a> |                           |
| Benzene              | U      |           | 0.0896     | 0.500 | 1        | 04/25/2019 17:28 | <a href="#">WG1271705</a> |                           |
| Bromobenzene         | U      |           | 0.133      | 0.500 | 1        | 04/25/2019 17:28 | <a href="#">WG1271705</a> |                           |
| Bromodichloromethane | U      |           | 0.0800     | 0.500 | 1        | 04/25/2019 17:28 | <a href="#">WG1271705</a> |                           |
| Bromochloromethane   | U      |           | 0.145      | 0.500 | 1        | 04/25/2019 17:28 | <a href="#">WG1271705</a> |                           |
| Bromoform            | U      |           | 0.186      | 0.500 | 1        | 04/25/2019 17:28 | <a href="#">WG1271705</a> |                           |
| Bromomethane         | U      | UJ        | J0         | 0.157 | 2.50     | 1                | 04/25/2019 17:28          | <a href="#">WG1271705</a> |
| n-Butylbenzene       | U      |           | 0.143      | 0.500 | 1        | 04/25/2019 17:28 | <a href="#">WG1271705</a> |                           |
| sec-Butylbenzene     | U      |           | 0.134      | 0.500 | 1        | 04/25/2019 17:28 | <a href="#">WG1271705</a> |                           |
| tert-Butylbenzene    | U      |           | 0.183      | 0.500 | 1        | 04/25/2019 17:28 | <a href="#">WG1271705</a> |                           |
| Carbon disulfide     | 0.160  | J         | J          | 0.101 | 0.500    | 1                | 04/25/2019 17:28          | <a href="#">WG1271705</a> |
| Carbon tetrachloride | U      |           | 0.159      | 0.500 | 1        | 04/25/2019 17:28 | <a href="#">WG1271705</a> |                           |

JC 5/13/19

- 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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Chloroethane                   | U              | UJ JO     | 0.141       | 2.50        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,1-Dichloroethene             | 1.96           |           | 0.188       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| cis-1,2-Dichloroethene         | 672            |           | 0.933       | 5.00        | 10       | 05/01/2019 02:42        | <a href="#">WG1274056</a> |
| trans-1,2-Dichloroethene       | 2.35           |           | 0.152       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 2-Hexanone                     | U              |           | 0.757       | 5.00        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Toluene                        | 0.560          |           | 0.412       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Trichloroethene                | 40.1           |           | 0.153       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/13/19



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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Vinyl chloride            | 81.0           | J JO      | 0.118       | 0.500       | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| (S) Toluene-d8            | 100            |           |             | 80.0-120    |          | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| (S) Toluene-d8            | 103            |           |             | 80.0-120    |          | 05/01/2019 02:42        | <a href="#">WG1274056</a> |
| (S) 4-Bromofluorobenzene  | 106            |           |             | 77.0-126    |          | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| (S) 4-Bromofluorobenzene  | 99.6           |           |             | 77.0-126    |          | 05/01/2019 02:42        | <a href="#">WG1274056</a> |
| (S) 1,2-Dichloroethane-d4 | 93.5           |           |             | 70.0-130    |          | 04/25/2019 17:28        | <a href="#">WG1271705</a> |
| (S) 1,2-Dichloroethane-d4 | 100            |           |             | 70.0-130    |          | 05/01/2019 02:42        | <a href="#">WG1274056</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/13/19



Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 227000 |           | 2710 | 20000 | 1        | 04/30/2019 17:31 | <a href="#">WG1273427</a> |

Sample Narrative:

L1091958-02 WG1273427: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 28100  |           | 51.9 | 1000 | 1        | 04/25/2019 00:09 | <a href="#">WG1271082</a> |
| Nitrate  | 2770   |           | 22.7 | 100  | 1        | 04/25/2019 00:09 | <a href="#">WG1271082</a> |
| Sulfate  | 44400  |           | 77.4 | 5000 | 1        | 04/25/2019 00:09 | <a href="#">WG1271082</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier    | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|--------------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |              | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 2710   | <del>B</del> | 102  | 1000 | 1        | 04/24/2019 18:18 | <a href="#">WG1271096</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 315    |           | 15.0  | 100  | 1        | 05/06/2019 00:10 | <a href="#">WG1271171</a> |
| Manganese | 63.7   |           | 0.250 | 5.00 | 1        | 05/06/2019 00:10 | <a href="#">WG1271171</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 04/25/2019 16:07 | <a href="#">WG1271515</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 112    |           |      | 78.0-120 |          | 04/25/2019 16:07 | <a href="#">WG1271515</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | U      |           | 0.287 | 0.678 | 1        | 04/26/2019 14:51 | <a href="#">WG1271298</a> |
| Ethane  | U      |           | 0.296 | 1.29  | 1        | 04/26/2019 14:51 | <a href="#">WG1271298</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 04/26/2019 14:51 | <a href="#">WG1271298</a> |

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

| Analyte              | Result | Qualifier | MDL        | RDL   | Dilution | Analysis         | Batch                     |                           |
|----------------------|--------|-----------|------------|-------|----------|------------------|---------------------------|---------------------------|
|                      | ug/l   |           | ug/l       | ug/l  |          | date / time      |                           |                           |
| Acetone              | 2.03   | J         | J J0 J3 J4 | 1.05  | 25.0     | 1                | 04/25/2019 17:48          | <a href="#">WG1271705</a> |
| Acrylonitrile        | U      |           | 0.873      | 5.00  | 1        | 04/25/2019 17:48 | <a href="#">WG1271705</a> |                           |
| Benzene              | U      |           | 0.0896     | 0.500 | 1        | 04/25/2019 17:48 | <a href="#">WG1271705</a> |                           |
| Bromobenzene         | U      |           | 0.133      | 0.500 | 1        | 04/25/2019 17:48 | <a href="#">WG1271705</a> |                           |
| Bromodichloromethane | U      |           | 0.0800     | 0.500 | 1        | 04/25/2019 17:48 | <a href="#">WG1271705</a> |                           |
| Bromochloromethane   | U      |           | 0.145      | 0.500 | 1        | 04/25/2019 17:48 | <a href="#">WG1271705</a> |                           |
| Bromoform            | U      |           | 0.186      | 0.500 | 1        | 04/25/2019 17:48 | <a href="#">WG1271705</a> |                           |
| Bromomethane         | U      | UJ        | J0         | 0.157 | 2.50     | 1                | 04/25/2019 17:48          | <a href="#">WG1271705</a> |
| n-Butylbenzene       | U      |           | 0.143      | 0.500 | 1        | 04/25/2019 17:48 | <a href="#">WG1271705</a> |                           |
| sec-Butylbenzene     | U      |           | 0.134      | 0.500 | 1        | 04/25/2019 17:48 | <a href="#">WG1271705</a> |                           |
| tert-Butylbenzene    | U      |           | 0.183      | 0.500 | 1        | 04/25/2019 17:48 | <a href="#">WG1271705</a> |                           |
| Carbon disulfide     | U      |           | 0.101      | 0.500 | 1        | 04/25/2019 17:48 | <a href="#">WG1271705</a> |                           |
| Carbon tetrachloride | U      |           | 0.159      | 0.500 | 1        | 04/25/2019 17:48 | <a href="#">WG1271705</a> |                           |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Collected date/time: 04/23/19 10:05

L1091958

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Chloroethane                   | U              | UJ JO     | 0.141       | 2.50        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,1-Dichloroethene             | U              |           | 0.188       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| cis-1,2-Dichloroethene         | 7.57           |           | 0.0933      | 0.500       | 1        | 05/01/2019 01:36        | <a href="#">WG1274056</a> |
| trans-1,2-Dichloroethene       | U              |           | 0.152       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 2-Hexanone                     | U              |           | 0.757       | 5.00        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Tetrachloroethene              | 48.8           |           | 0.199       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Trichloroethene                | 9.09           |           | 0.153       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/13/19



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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Vinyl chloride            | U              | UJ JO     | 0.118       | 0.500       | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| (S) Toluene-d8            | 101            |           |             | 80.0-120    |          | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| (S) Toluene-d8            | 103            |           |             | 80.0-120    |          | 05/01/2019 01:36        | <a href="#">WG1274056</a> |
| (S) 4-Bromofluorobenzene  | 104            |           |             | 77.0-126    |          | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| (S) 4-Bromofluorobenzene  | 101            |           |             | 77.0-126    |          | 05/01/2019 01:36        | <a href="#">WG1274056</a> |
| (S) 1,2-Dichloroethane-d4 | 108            |           |             | 70.0-130    |          | 04/25/2019 17:48        | <a href="#">WG1271705</a> |
| (S) 1,2-Dichloroethane-d4 | 102            |           |             | 70.0-130    |          | 05/01/2019 01:36        | <a href="#">WG1274056</a> |

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

JC 5/13/19





Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | U              |           | 31.6        | 100         | 1        | 04/25/2019 16:31        | <a href="#">WG1271515</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111            |           |             | 78.0-120    |          | 04/25/2019 16:31        | <a href="#">WG1271515</a> |

- 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<br>ug/l | Qualifier | MDL<br>ug/l                            | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |                           |
|-----------------------------|----------------|-----------|--|-------------|----------|-------------------------|---------------------------|---------------------------|
| Acetone                     | 1.86           | J         | <u>J</u> <u>J0</u> <u>J3</u> <u>J4</u> | 1.05        | 25.0     | 1                       | 04/25/2019 18:09          | <a href="#">WG1271705</a> |
| Acrylonitrile               | U              |           | 0.873                                  | 5.00        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| Benzene                     | U              |           | 0.0896                                 | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| Bromobenzene                | U              |           | 0.133                                  | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| Bromodichloromethane        | U              |           | 0.0800                                 | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| Bromochloromethane          | U              |           | 0.145                                  | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| Bromoform                   | U              |           | 0.186                                  | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| Bromomethane                | U              | UJ        | <u>J0</u>                              | 0.157       | 2.50     | 1                       | 04/25/2019 18:09          | <a href="#">WG1271705</a> |
| n-Butylbenzene              | U              |           | 0.143                                  | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| sec-Butylbenzene            | U              |           | 0.134                                  | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| tert-Butylbenzene           | U              |           | 0.183                                  | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| Carbon disulfide            | U              |           | 0.101                                  | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| Carbon tetrachloride        | U              |           | 0.159                                  | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| Chlorobenzene               | U              |           | 0.140                                  | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| Chlorodibromomethane        | U              |           | 0.128                                  | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| Chloroethane                | U              | UJ        | <u>J0</u>                              | 0.141       | 2.50     | 1                       | 04/25/2019 18:09          | <a href="#">WG1271705</a> |
| Chloroform                  | U              |           | 0.0860                                 | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| Chloromethane               | U              |           | 0.153                                  | 1.25        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| 2-Chlorotoluene             | U              |           | 0.111                                  | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| 4-Chlorotoluene             | U              |           | 0.0972                                 | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| 1,2-Dibromo-3-Chloropropane | U              |           | 0.325                                  | 2.50        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| 1,2-Dibromoethane           | U              |           | 0.193                                  | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| Dibromomethane              | U              |           | 0.117                                  | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| 1,2-Dichlorobenzene         | U              |           | 0.101                                  | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| 1,3-Dichlorobenzene         | U              |           | 0.130                                  | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| 1,4-Dichlorobenzene         | U              |           | 0.121                                  | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| Dichlorodifluoromethane     | U              |           | 0.127                                  | 2.50        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| 1,1-Dichloroethane          | U              |           | 0.114                                  | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| 1,2-Dichloroethane          | U              |           | 0.108                                  | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| 1,1-Dichloroethene          | 0.249          | J         | <u>J</u>                               | 0.188       | 0.500    | 1                       | 04/25/2019 18:09          | <a href="#">WG1271705</a> |
| cis-1,2-Dichloroethene      | 71.9           |           | 0.0933                                 | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| trans-1,2-Dichloroethene    | U              |           | 0.152                                  | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| 1,2-Dichloropropane         | U              |           | 0.190                                  | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| 1,1-Dichloropropene         | U              |           | 0.128                                  | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| 1,3-Dichloropropane         | U              |           | 0.147                                  | 1.00        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| cis-1,3-Dichloropropene     | U              |           | 0.0976                                 | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| trans-1,3-Dichloropropene   | U              |           | 0.222                                  | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| trans-1,4-Dichloro-2-butene | U              |           | 0.257                                  | 5.00        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| 2,2-Dichloropropane         | U              |           | 0.0929                                 | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| Di-isopropyl ether          | U              |           | 0.0924                                 | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| Ethylbenzene                | U              |           | 0.158                                  | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| Hexachloro-1,3-butadiene    | U              |           | 0.157                                  | 1.00        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| 2-Hexanone                  | U              |           | 0.757                                  | 5.00        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| n-Hexane                    | U              |           | 0.305                                  | 5.00        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| Iodomethane                 | U              |           | 0.377                                  | 10.0        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| Isopropylbenzene            | U              |           | 0.126                                  | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| p-Isopropyltoluene          | U              |           | 0.138                                  | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |
| 2-Butanone (MEK)            | U              |           | 1.28                                   | 5.00        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |                           |

JC 5/13/19



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

| Analyte                        | Result<br>ug/l | Qualifier           | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|---------------------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |                     | 1.07        | 2.50        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |                     | 0.823       | 5.00        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Methyl tert-butyl ether        | U              |                     | 0.102       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Naphthalene                    | U              |                     | 0.174       | 2.50        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| n-Propylbenzene                | U              |                     | 0.162       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Styrene                        | U              |                     | 0.117       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,1,1,2-Tetrachloroethane      | U              |                     | 0.120       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,1,2,2-Tetrachloroethane      | U              |                     | 0.130       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |                     | 0.164       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Tetrachloroethene              | 14.6           |                     | 0.199       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Toluene                        | U              |                     | 0.412       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,2,3-Trichlorobenzene         | U              |                     | 0.164       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,2,4-Trichlorobenzene         | U              |                     | 0.355       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,1,1-Trichloroethane          | U              |                     | 0.0940      | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,1,2-Trichloroethane          | U              |                     | 0.186       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Trichloroethene                | 4.75           |                     | 0.153       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Trichlorofluoromethane         | U              | <b>UJ</b> <u>JO</u> | 0.130       | 2.50        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,2,3-Trichloropropane         | U              |                     | 0.247       | 2.50        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,2,4-Trimethylbenzene         | U              |                     | 0.123       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,2,3-Trimethylbenzene         | U              |                     | 0.0739      | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| 1,3,5-Trimethylbenzene         | U              |                     | 0.124       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Vinyl acetate                  | U              |                     | 0.645       | 5.00        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Vinyl chloride                 | 6.54           | <b>J</b> <u>JO</u>  | 0.118       | 0.500       | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| Xylenes, Total                 | U              |                     | 0.316       | 1.50        | 1        | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| (S) Toluene-d8                 | 101            |                     |             | 80.0-120    |          | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| (S) 4-Bromofluorobenzene       | 104            |                     |             | 77.0-126    |          | 04/25/2019 18:09        | <a href="#">WG1271705</a> |
| (S) 1,2-Dichloroethane-d4      | 93.4           |                     |             | 70.0-130    |          | 04/25/2019 18:09        | <a href="#">WG1271705</a> |

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

JC 5/13/19



Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 733000 |           | 2710 | 20000 | 1        | 04/30/2019 17:37 | <a href="#">WG1273427</a> |

Sample Narrative:

L1091958-04 WG1273427: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 144000 |           | 260  | 5000 | 5        | 04/25/2019 00:37 | <a href="#">WG1271082</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/25/2019 00:23 | <a href="#">WG1271082</a> |
| Sulfate  | U      |           | 77.4 | 5000 | 1        | 04/25/2019 00:23 | <a href="#">WG1271082</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 11400  |           | 102  | 1000 | 1        | 04/24/2019 19:53 | <a href="#">WG1271096</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Iron      | 1220   |           | 15.0 | 100  | 1        | 05/06/2019 00:14 | <a href="#">WG1271171</a> |
| Manganese | 1480   |           | 2.50 | 50.0 | 10       | 05/07/2019 00:53 | <a href="#">WG1271171</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 04/25/2019 16:55 | <a href="#">WG1271515</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111    |           |      | 78.0-120 |          | 04/25/2019 16:55 | <a href="#">WG1271515</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Methane | 13000  |           | 5.74  | 13.6 | 20       | 05/02/2019 08:44 | <a href="#">WG1274563</a> |
| Ethane  | 771    |           | 0.296 | 1.29 | 1        | 04/26/2019 14:56 | <a href="#">WG1271298</a> |
| Ethene  | 699    |           | 0.422 | 1.27 | 1        | 04/26/2019 14:56 | <a href="#">WG1271298</a> |

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

| Analyte              | Result | Qualifier | MDL        | RDL   | Dilution | Analysis         | Batch                     |                                      |
|----------------------|--------|-----------|------------|-------|----------|------------------|---------------------------|--------------------------------------|
|                      | ug/l   |           | ug/l       | ug/l  |          | date / time      |                           |                                      |
| Acetone              | 2.38   | J         | J J0 J3 J4 | 1.05  | 25.0     | 1                | 04/25/2019 18:29          | <a href="#">WG1271705</a>            |
| Acrylonitrile        | U      |           | 0.873      | 5.00  | 1        | 04/25/2019 18:29 | <a href="#">WG1271705</a> |                                      |
| Benzene              | U      |           | 0.0896     | 0.500 | 1        | 04/25/2019 18:29 | <a href="#">WG1271705</a> |                                      |
| Bromobenzene         | U      |           | 0.133      | 0.500 | 1        | 04/25/2019 18:29 | <a href="#">WG1271705</a> |                                      |
| Bromodichloromethane | U      |           | 0.0800     | 0.500 | 1        | 04/25/2019 18:29 | <a href="#">WG1271705</a> |                                      |
| Bromochloromethane   | U      |           | 0.145      | 0.500 | 1        | 04/25/2019 18:29 | <a href="#">WG1271705</a> |                                      |
| Bromoform            | U      |           | 0.186      | 0.500 | 1        | 04/25/2019 18:29 | <a href="#">WG1271705</a> |                                      |
| Bromomethane         | U      | UJ        | J0         | 0.157 | 2.50     | 1                | 04/25/2019 18:29          | <a href="#">WG1271705</a>            |
| n-Butylbenzene       | U      |           | 0.143      | 0.500 | 1        | 04/25/2019 18:29 | <a href="#">WG1271705</a> |                                      |
| sec-Butylbenzene     | U      |           | 0.134      | 0.500 | 1        | 04/25/2019 18:29 | <a href="#">WG1271705</a> |                                      |
| tert-Butylbenzene    | U      |           | 0.183      | 0.500 | 1        | 04/25/2019 18:29 | <a href="#">WG1271705</a> |                                      |
| Carbon disulfide     | 0.210  | J         | J          | 0.101 | 0.500    | 1                | 04/25/2019 18:29          | <a href="#">WG1271705</a> JC 5/13/19 |
| Carbon tetrachloride | U      |           | 0.159      | 0.500 | 1        | 04/25/2019 18:29 | <a href="#">WG1271705</a> |                                      |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Chloroethane                   | U              | UJ JO     | 0.141       | 2.50        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,1-Dichloroethene             | U              |           | 0.188       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| cis-1,2-Dichloroethene         | 4.09           |           | 0.0933      | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| trans-1,2-Dichloroethene       | 0.472          | J U       | 0.152       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 2-Hexanone                     | U              |           | 0.757       | 5.00        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Trichloroethene                | 0.158          | J U       | 0.153       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/13/19



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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Vinyl chloride            | 7.30           | J JO      | 0.118       | 0.500       | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| (S) Toluene-d8            | 101            |           |             | 80.0-120    |          | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| (S) 4-Bromofluorobenzene  | 104            |           |             | 77.0-126    |          | 04/25/2019 18:29        | <a href="#">WG1271705</a> |
| (S) 1,2-Dichloroethane-d4 | 95.9           |           |             | 70.0-130    |          | 04/25/2019 18:29        | <a href="#">WG1271705</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/13/19



Collected date/time: 04/23/19 00:00

L1091958

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 04/25/2019 12:56 | <a href="#">WG1271515</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111    |           |      | 78.0-120 |          | 04/25/2019 12:56 | <a href="#">WG1271515</a> |

- 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 J4     | 1.05   | 25.0  | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| Benzene                     | U      |           | 0.0896 | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| Bromomethane                | U      | UJ JO     | 0.157  | 2.50  | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| Chloroethane                | U      | UJ JO     | 0.141  | 2.50  | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| Chloromethane               | U      |           | 0.153  | 1.25  | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| 1,1-Dichloroethane          | U      |           | 0.114  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| 1,1-Dichloroethene          | U      |           | 0.188  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| cis-1,2-Dichloroethene      | U      |           | 0.0933 | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| trans-1,2-Dichloroethene    | U      |           | 0.152  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a> JC 5/13/19 |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| Di-isopropyl ether          | U      |           | 0.0924 | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 04/25/2019 16:08 | <a href="#">WG1271705</a>            |



Collected date/time: 04/23/19 00:00

L1091958

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Vinyl acetate                  | U              |           | 0.645       | 5.00        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Vinyl chloride                 | U              | UJ JO     | 0.118       | 0.500       | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| (S) Toluene-d8                 | 100            |           |             | 80.0-120    |          | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| (S) 4-Bromofluorobenzene       | 104            |           |             | 77.0-126    |          | 04/25/2019 16:08        | <a href="#">WG1271705</a> |
| (S) 1,2-Dichloroethane-d4      | 92.3           |           |             | 70.0-130    |          | 04/25/2019 16:08        | <a href="#">WG1271705</a> |

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

JC 5/13/19



## PES Environmental, Inc.- WA

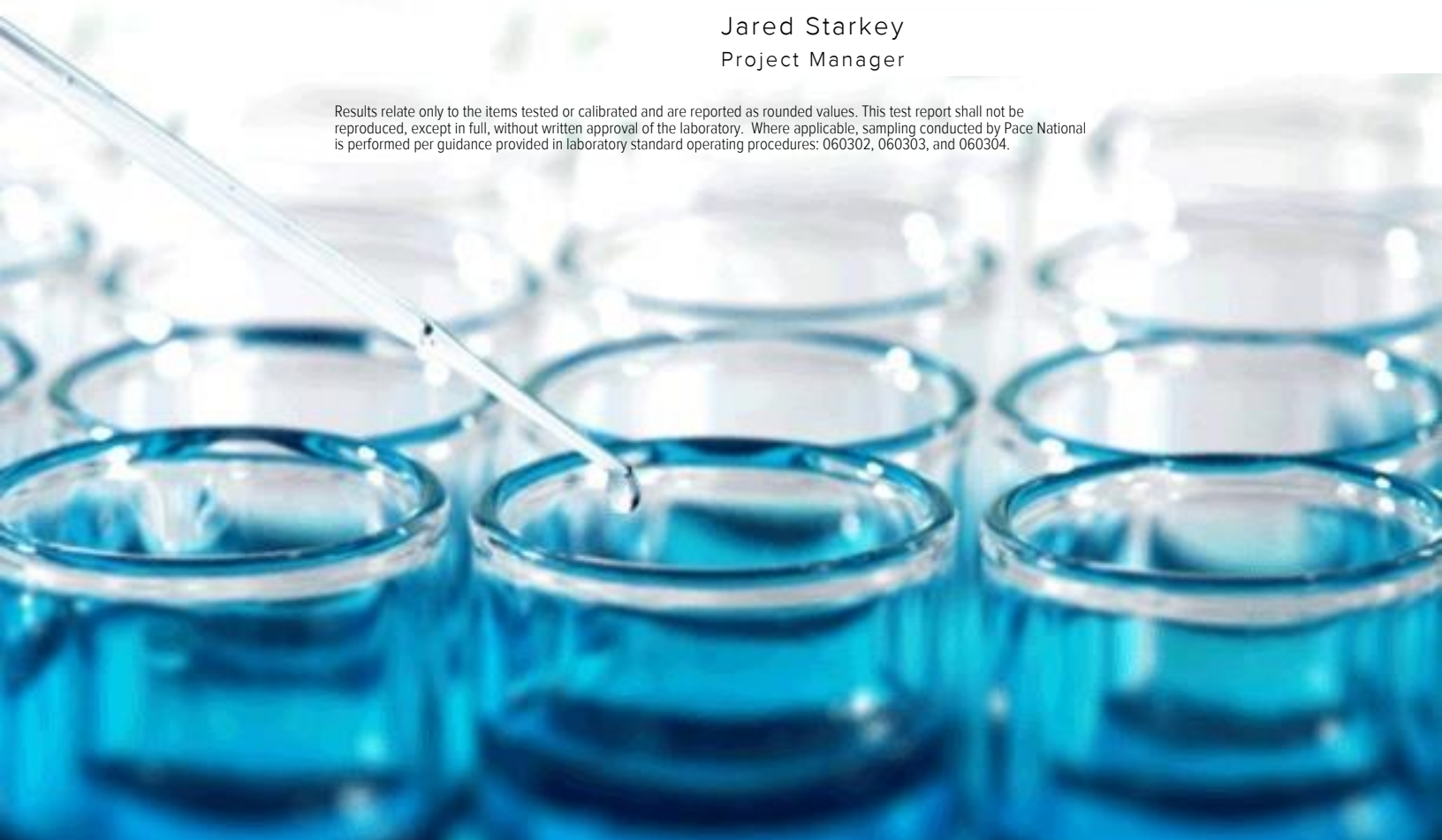
Sample Delivery Group: L1092400  
Samples Received: 04/25/2019  
Project Number: 1413.001.05.601  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:



Jared Starkey  
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.







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| <b>Cn: Case Narrative</b>                          | <b>4</b>  |                |
| <b>Sr: Sample Results</b>                          | <b>5</b>  | <b>3</b><br>Ss |
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# SAMPLE SUMMARY



## MW-909-042419 L1092400-01 GW

Collected by Ben Hecht  
Collected date/time 04/24/19 08:00  
Received date/time 04/25/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011                | WG1273429 | 1        | 04/30/19 14:55        | 04/30/19 14:55     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1271706 | 1        | 04/26/19 02:48        | 04/26/19 02:48     | ELN     | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                      | WG1272243 | 1        | 04/29/19 19:31        | 04/29/19 19:31     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1271843 | 1        | 04/26/19 07:59        | 04/29/19 15:46     | LD      | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1271843 | 5        | 04/26/19 07:59        | 04/29/19 17:16     | LD      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1272107 | 1        | 04/26/19 02:05        | 04/26/19 02:05     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1272501 | 1        | 05/02/19 14:17        | 05/02/19 14:17     | DAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1271705 | 1        | 04/25/19 18:49        | 04/25/19 18:49     | BMB     | Mt. Juliet, TN |

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## MW-146-042419 L1092400-02 GW

Collected by Ben Hecht  
Collected date/time 04/24/19 09:55  
Received date/time 04/25/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011                | WG1273429 | 1        | 04/30/19 15:03        | 04/30/19 15:03     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1271706 | 1        | 04/26/19 02:59        | 04/26/19 02:59     | ELN     | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                      | WG1272243 | 1        | 04/29/19 19:49        | 04/29/19 19:49     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1271843 | 5        | 04/26/19 07:59        | 04/29/19 17:21     | LD      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1272107 | 1        | 04/26/19 02:29        | 04/26/19 02:29     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1272501 | 1        | 05/02/19 14:20        | 05/02/19 14:20     | DAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1271705 | 1        | 04/25/19 19:09        | 04/25/19 19:09     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1274056 | 10       | 05/01/19 03:04        | 05/01/19 03:04     | JHH     | Mt. Juliet, TN |

## MW-154-042419 L1092400-03 GW

Collected by Ben Hecht  
Collected date/time 04/24/19 11:40  
Received date/time 04/25/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1272107 | 1        | 04/26/19 02:53        | 04/26/19 02:53     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1271705 | 1        | 04/25/19 19:29        | 04/25/19 19:29     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1274056 | 1        | 05/01/19 01:58        | 05/01/19 01:58     | JHH     | Mt. Juliet, TN |

## MW-153-042419 L1092400-04 GW

Collected by Ben Hecht  
Collected date/time 04/24/19 12:55  
Received date/time 04/25/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011                | WG1273429 | 1        | 04/30/19 15:10        | 04/30/19 15:10     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1271706 | 1        | 04/26/19 03:10        | 04/26/19 03:10     | ELN     | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                      | WG1272243 | 1        | 04/29/19 20:49        | 04/29/19 20:49     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1271843 | 5        | 04/26/19 07:59        | 04/29/19 17:27     | LD      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1272107 | 1        | 04/26/19 03:17        | 04/26/19 03:17     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1272501 | 1        | 05/02/19 15:36        | 05/02/19 15:36     | DAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1271705 | 1        | 04/25/19 19:49        | 04/25/19 19:49     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1274056 | 1        | 05/01/19 02:20        | 05/01/19 02:20     | JHH     | Mt. Juliet, TN |

## TRIP BLANK-042419 L1092400-05 GW

Collected by Ben Hecht  
Collected date/time 04/24/19 00:00  
Received date/time 04/25/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1272107 | 1        | 04/26/19 01:41        | 04/26/19 01:41     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1271705 | 1        | 04/25/19 16:28        | 04/25/19 16:28     | BMB     | 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.

Jared Starkey  
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 | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 170000 |           | 2710 | 20000 | 1        | 04/30/2019 14:55 | <a href="#">WG1273429</a> |

Sample Narrative:

L1092400-01 WG1273429: Endpoint pH 4.5

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 9160   |           | 51.9 | 1000 | 1        | 04/26/2019 02:48 | <a href="#">WG1271706</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/26/2019 02:48 | <a href="#">WG1271706</a> |
| Sulfate  | 8910   |           | 77.4 | 5000 | 1        | 04/26/2019 02:48 | <a href="#">WG1271706</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 4620   | <u>B</u>  | 102  | 1000 | 1        | 04/29/2019 19:31 | <a href="#">WG1272243</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Iron      | 1590   |           | 15.0 | 100  | 1        | 04/29/2019 15:46 | <a href="#">WG1271843</a> |
| Manganese | 305    |           | 1.25 | 25.0 | 5        | 04/29/2019 17:16 | <a href="#">WG1271843</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 04/26/2019 02:05 | <a href="#">WG1272107</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111    |           |      | 78.0-120 |          | 04/26/2019 02:05 | <a href="#">WG1272107</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 434    |           | 0.287 | 0.678 | 1        | 05/02/2019 14:17 | <a href="#">WG1272501</a> |
| Ethane  | U      |           | 0.296 | 1.29  | 1        | 05/02/2019 14:17 | <a href="#">WG1272501</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 05/02/2019 14:17 | <a href="#">WG1272501</a> |

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

| Analyte              | Result | Qualifier         | MDL    | RDL   | Dilution | Analysis         | Batch                     |
|----------------------|--------|-------------------|--------|-------|----------|------------------|---------------------------|
|                      | ug/l   |                   | ug/l   | ug/l  |          | date / time      |                           |
| Acetone              | 2.21   | <u>J J0 J3 J4</u> | 1.05   | 25.0  | 1        | 04/25/2019 18:49 | <a href="#">WG1271705</a> |
| Acrylonitrile        | U      |                   | 0.873  | 5.00  | 1        | 04/25/2019 18:49 | <a href="#">WG1271705</a> |
| Benzene              | U      |                   | 0.0896 | 0.500 | 1        | 04/25/2019 18:49 | <a href="#">WG1271705</a> |
| Bromobenzene         | U      |                   | 0.133  | 0.500 | 1        | 04/25/2019 18:49 | <a href="#">WG1271705</a> |
| Bromodichloromethane | U      |                   | 0.0800 | 0.500 | 1        | 04/25/2019 18:49 | <a href="#">WG1271705</a> |
| Bromochloromethane   | U      |                   | 0.145  | 0.500 | 1        | 04/25/2019 18:49 | <a href="#">WG1271705</a> |
| Bromoform            | U      |                   | 0.186  | 0.500 | 1        | 04/25/2019 18:49 | <a href="#">WG1271705</a> |
| Bromomethane         | U      | <u>J0</u>         | 0.157  | 2.50  | 1        | 04/25/2019 18:49 | <a href="#">WG1271705</a> |
| n-Butylbenzene       | U      |                   | 0.143  | 0.500 | 1        | 04/25/2019 18:49 | <a href="#">WG1271705</a> |
| sec-Butylbenzene     | U      |                   | 0.134  | 0.500 | 1        | 04/25/2019 18:49 | <a href="#">WG1271705</a> |
| tert-Butylbenzene    | U      |                   | 0.183  | 0.500 | 1        | 04/25/2019 18:49 | <a href="#">WG1271705</a> |
| Carbon disulfide     | 0.303  | <u>J</u>          | 0.101  | 0.500 | 1        | 04/25/2019 18:49 | <a href="#">WG1271705</a> |
| Carbon tetrachloride | U      |                   | 0.159  | 0.500 | 1        | 04/25/2019 18:49 | <a href="#">WG1271705</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Chloroethane                   | U              | JO        | 0.141       | 2.50        | 1        | 04/25/2019 18:49        | WG1271705 |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 04/25/2019 18:49        | WG1271705 |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,1-Dichloroethene             | U              |           | 0.188       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| cis-1,2-Dichloroethene         | 0.975          |           | 0.0933      | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| trans-1,2-Dichloroethene       | U              |           | 0.152       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 04/25/2019 18:49        | WG1271705 |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 04/25/2019 18:49        | WG1271705 |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 04/25/2019 18:49        | WG1271705 |
| 2-Hexanone                     | U              |           | 0.757       | 5.00        | 1        | 04/25/2019 18:49        | WG1271705 |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 04/25/2019 18:49        | WG1271705 |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 04/25/2019 18:49        | WG1271705 |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 04/25/2019 18:49        | WG1271705 |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/25/2019 18:49        | WG1271705 |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/25/2019 18:49        | WG1271705 |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/25/2019 18:49        | WG1271705 |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Trichlorofluoromethane         | U              | JO        | 0.130       | 2.50        | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |

1 Cp

2 Tc

3 Ss

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9 Sc



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

| Analyte                          | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|----------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate                    | U              |           | 0.645       | 5.00        | 1        | 04/25/2019 18:49        | <a href="#">WG1271705</a> |
| Vinyl chloride                   | 1.66           | <u>JO</u> | 0.118       | 0.500       | 1        | 04/25/2019 18:49        | <a href="#">WG1271705</a> |
| Xylenes, Total                   | U              |           | 0.316       | 1.50        | 1        | 04/25/2019 18:49        | <a href="#">WG1271705</a> |
| <i>(S) Toluene-d8</i>            | 101            |           |             | 80.0-120    |          | 04/25/2019 18:49        | <a href="#">WG1271705</a> |
| <i>(S) 4-Bromofluorobenzene</i>  | 106            |           |             | 77.0-126    |          | 04/25/2019 18:49        | <a href="#">WG1271705</a> |
| <i>(S) 1,2-Dichloroethane-d4</i> | 93.8           |           |             | 70.0-130    |          | 04/25/2019 18:49        | <a href="#">WG1271705</a> |

1 Cp

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Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 310000 |           | 2710 | 20000 | 1        | 04/30/2019 15:03 | <a href="#">WG1273429</a> |

Sample Narrative:

L1092400-02 WG1273429: Endpoint pH 4.5

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 14800  |           | 51.9 | 1000 | 1        | 04/26/2019 02:59 | <a href="#">WG1271706</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/26/2019 02:59 | <a href="#">WG1271706</a> |
| Sulfate  | 23300  |           | 77.4 | 5000 | 1        | 04/26/2019 02:59 | <a href="#">WG1271706</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 4950   | <u>B</u>  | 102  | 1000 | 1        | 04/29/2019 19:49 | <a href="#">WG1272243</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Iron      | 2870   |           | 75.0 | 500  | 5        | 04/29/2019 17:21 | <a href="#">WG1271843</a> |
| Manganese | 770    |           | 1.25 | 25.0 | 5        | 04/29/2019 17:21 | <a href="#">WG1271843</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | 88.0   | <u>J</u>  | 31.6 | 100      | 1        | 04/26/2019 02:29 | <a href="#">WG1272107</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111    |           |      | 78.0-120 |          | 04/26/2019 02:29 | <a href="#">WG1272107</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 5090   |           | 0.287 | 0.678 | 1        | 05/02/2019 14:20 | <a href="#">WG1272501</a> |
| Ethane  | 4.00   |           | 0.296 | 1.29  | 1        | 05/02/2019 14:20 | <a href="#">WG1272501</a> |
| Ethene  | 347    |           | 0.422 | 1.27  | 1        | 05/02/2019 14:20 | <a href="#">WG1272501</a> |

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              | 1.58   | <u>J J0 J3 J4</u> | 1.05   | 25.0  | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |
| Acrylonitrile        | U      |                   | 0.873  | 5.00  | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |
| Benzene              | U      |                   | 0.0896 | 0.500 | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |
| Bromobenzene         | U      |                   | 0.133  | 0.500 | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |
| Bromodichloromethane | U      |                   | 0.0800 | 0.500 | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |
| Bromochloromethane   | U      |                   | 0.145  | 0.500 | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |
| Bromoform            | U      |                   | 0.186  | 0.500 | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |
| Bromomethane         | U      | <u>J0</u>         | 0.157  | 2.50  | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |
| n-Butylbenzene       | U      |                   | 0.143  | 0.500 | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |
| sec-Butylbenzene     | U      |                   | 0.134  | 0.500 | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |
| tert-Butylbenzene    | U      |                   | 0.183  | 0.500 | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |
| Carbon disulfide     | U      |                   | 0.101  | 0.500 | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |
| Carbon tetrachloride | U      |                   | 0.159  | 0.500 | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |

1 Cp

2 Tc

3 Ss

4 Cn

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7 Gl

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Chloroethane                   | 0.719          | JJO       | 0.141       | 2.50        | 1        | 04/25/2019 19:09        | WG1271705 |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 04/25/2019 19:09        | WG1271705 |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,1-Dichloroethene             | 1.04           |           | 0.188       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| cis-1,2-Dichloroethene         | 257            |           | 0.933       | 5.00        | 10       | 05/01/2019 03:04        | WG1274056 |
| trans-1,2-Dichloroethene       | 1.94           |           | 0.152       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 04/25/2019 19:09        | WG1271705 |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 04/25/2019 19:09        | WG1271705 |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 04/25/2019 19:09        | WG1271705 |
| 2-Hexanone                     | U              |           | 0.757       | 5.00        | 1        | 04/25/2019 19:09        | WG1271705 |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 04/25/2019 19:09        | WG1271705 |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 04/25/2019 19:09        | WG1271705 |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 04/25/2019 19:09        | WG1271705 |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/25/2019 19:09        | WG1271705 |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/25/2019 19:09        | WG1271705 |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/25/2019 19:09        | WG1271705 |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Tetrachloroethene              | 1.50           |           | 0.199       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Trichloroethene                | 12.4           |           | 0.153       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Trichlorofluoromethane         | U              | JO        | 0.130       | 2.50        | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|----------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate                    | U              |           | 0.645       | 5.00        | 1        | 04/25/2019 19:09        | <a href="#">WG1271705</a> |
| Vinyl chloride                   | 383            |           | 1.18        | 5.00        | 10       | 05/01/2019 03:04        | <a href="#">WG1274056</a> |
| Xylenes, Total                   | U              |           | 0.316       | 1.50        | 1        | 04/25/2019 19:09        | <a href="#">WG1271705</a> |
| <i>(S) Toluene-d8</i>            | 97.1           |           |             | 80.0-120    |          | 04/25/2019 19:09        | <a href="#">WG1271705</a> |
| <i>(S) Toluene-d8</i>            | 103            |           |             | 80.0-120    |          | 05/01/2019 03:04        | <a href="#">WG1274056</a> |
| <i>(S) 4-Bromofluorobenzene</i>  | 99.8           |           |             | 77.0-126    |          | 04/25/2019 19:09        | <a href="#">WG1271705</a> |
| <i>(S) 4-Bromofluorobenzene</i>  | 99.5           |           |             | 77.0-126    |          | 05/01/2019 03:04        | <a href="#">WG1274056</a> |
| <i>(S) 1,2-Dichloroethane-d4</i> | 107            |           |             | 70.0-130    |          | 04/25/2019 19:09        | <a href="#">WG1271705</a> |
| <i>(S) 1,2-Dichloroethane-d4</i> | 102            |           |             | 70.0-130    |          | 05/01/2019 03:04        | <a href="#">WG1274056</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | U              |           | 31.6        | 100         | 1        | 04/26/2019 02:53        | <a href="#">WG1272107</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111            |           |             | 78.0-120    |          | 04/26/2019 02:53        | <a href="#">WG1272107</a> |

- 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<br>ug/l | Qualifier  | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|------------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | 2.68           | J JO J3 J4 | 1.05        | 25.0        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Acrylonitrile               | U              |            | 0.873       | 5.00        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Benzene                     | U              |            | 0.0896      | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Bromobenzene                | U              |            | 0.133       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Bromodichloromethane        | U              |            | 0.0800      | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Bromochloromethane          | U              |            | 0.145       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Bromoform                   | U              |            | 0.186       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Bromomethane                | U              | JO         | 0.157       | 2.50        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| n-Butylbenzene              | U              |            | 0.143       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| sec-Butylbenzene            | U              |            | 0.134       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| tert-Butylbenzene           | U              |            | 0.183       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Carbon disulfide            | U              |            | 0.101       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Carbon tetrachloride        | U              |            | 0.159       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Chlorobenzene               | U              |            | 0.140       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Chlorodibromomethane        | U              |            | 0.128       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Chloroethane                | 0.369          | J JO       | 0.141       | 2.50        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Chloroform                  | U              |            | 0.0860      | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Chloromethane               | U              |            | 0.153       | 1.25        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 2-Chlorotoluene             | U              |            | 0.111       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 4-Chlorotoluene             | U              |            | 0.0972      | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,2-Dibromo-3-Chloropropane | U              |            | 0.325       | 2.50        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,2-Dibromoethane           | U              |            | 0.193       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Dibromomethane              | U              |            | 0.117       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,2-Dichlorobenzene         | U              |            | 0.101       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,3-Dichlorobenzene         | U              |            | 0.130       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,4-Dichlorobenzene         | U              |            | 0.121       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Dichlorodifluoromethane     | U              |            | 0.127       | 2.50        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,1-Dichloroethane          | U              |            | 0.114       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,2-Dichloroethane          | U              |            | 0.108       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,1-Dichloroethene          | U              |            | 0.188       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| cis-1,2-Dichloroethene      | 1.76           |            | 0.0933      | 0.500       | 1        | 05/01/2019 01:58        | <a href="#">WG1274056</a> |
| trans-1,2-Dichloroethene    | U              |            | 0.152       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,2-Dichloropropane         | U              |            | 0.190       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,1-Dichloropropene         | U              |            | 0.128       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,3-Dichloropropane         | U              |            | 0.147       | 1.00        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| cis-1,3-Dichloropropene     | U              |            | 0.0976      | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| trans-1,3-Dichloropropene   | U              |            | 0.222       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| trans-1,4-Dichloro-2-butene | U              |            | 0.257       | 5.00        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 2,2-Dichloropropane         | U              |            | 0.0929      | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Di-isopropyl ether          | U              |            | 0.0924      | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Ethylbenzene                | U              |            | 0.158       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Hexachloro-1,3-butadiene    | U              |            | 0.157       | 1.00        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 2-Hexanone                  | U              |            | 0.757       | 5.00        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| n-Hexane                    | U              |            | 0.305       | 5.00        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Iodomethane                 | U              |            | 0.377       | 10.0        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Isopropylbenzene            | U              |            | 0.126       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| p-Isopropyltoluene          | U              |            | 0.138       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 2-Butanone (MEK)            | U              |            | 1.28        | 5.00        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |



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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Tetrachloroethene              | 1.02           |           | 0.199       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Trichloroethene                | 0.214          | <u>J</u>  | 0.153       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Vinyl acetate                  | U              |           | 0.645       | 5.00        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Vinyl chloride                 | 0.797          |           | 0.118       | 0.500       | 1        | 05/01/2019 01:58        | <a href="#">WG1274056</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| (S) Toluene-d8                 | 94.9           |           |             | 80.0-120    |          | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| (S) Toluene-d8                 | 103            |           |             | 80.0-120    |          | 05/01/2019 01:58        | <a href="#">WG1274056</a> |
| (S) 4-Bromofluorobenzene       | 98.6           |           |             | 77.0-126    |          | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| (S) 4-Bromofluorobenzene       | 99.7           |           |             | 77.0-126    |          | 05/01/2019 01:58        | <a href="#">WG1274056</a> |
| (S) 1,2-Dichloroethane-d4      | 106            |           |             | 70.0-130    |          | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| (S) 1,2-Dichloroethane-d4      | 100            |           |             | 70.0-130    |          | 05/01/2019 01:58        | <a href="#">WG1274056</a> |

- 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 | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 174000 |           | 2710 | 20000 | 1        | 04/30/2019 15:10 | <a href="#">WG1273429</a> |

Sample Narrative:

L1092400-04 WG1273429: Endpoint pH 4.5

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 9400   |           | 51.9 | 1000 | 1        | 04/26/2019 03:10 | <a href="#">WG1271706</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/26/2019 03:10 | <a href="#">WG1271706</a> |
| Sulfate  | 9230   |           | 77.4 | 5000 | 1        | 04/26/2019 03:10 | <a href="#">WG1271706</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 3860   | <u>B</u>  | 102  | 1000 | 1        | 04/29/2019 20:49 | <a href="#">WG1272243</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Iron      | 3600   |           | 75.0 | 500  | 5        | 04/29/2019 17:27 | <a href="#">WG1271843</a> |
| Manganese | 385    |           | 1.25 | 25.0 | 5        | 04/29/2019 17:27 | <a href="#">WG1271843</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                               | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                       | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH         | U      |           | 31.6 | 100      | 1        | 04/26/2019 03:17 | <a href="#">WG1272107</a> |
| (S) <i>a,a</i> -Trifluorotoluene(FID) | 111    |           |      | 78.0-120 |          | 04/26/2019 03:17 | <a href="#">WG1272107</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 412    |           | 0.287 | 0.678 | 1        | 05/02/2019 15:36 | <a href="#">WG1272501</a> |
| Ethane  | U      |           | 0.296 | 1.29  | 1        | 05/02/2019 15:36 | <a href="#">WG1272501</a> |
| Ethene  | 1.79   |           | 0.422 | 1.27  | 1        | 05/02/2019 15:36 | <a href="#">WG1272501</a> |

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

| Analyte              | Result | Qualifier         | MDL    | RDL   | Dilution | Analysis         | Batch                     |
|----------------------|--------|-------------------|--------|-------|----------|------------------|---------------------------|
|                      | ug/l   |                   | ug/l   | ug/l  |          | date / time      |                           |
| Acetone              | 3.82   | <u>J J0 J3 J4</u> | 1.05   | 25.0  | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Acrylonitrile        | U      |                   | 0.873  | 5.00  | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Benzene              | U      |                   | 0.0896 | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Bromobenzene         | U      |                   | 0.133  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Bromodichloromethane | U      |                   | 0.0800 | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Bromochloromethane   | U      |                   | 0.145  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Bromoform            | U      |                   | 0.186  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Bromomethane         | U      | <u>J0</u>         | 0.157  | 2.50  | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| n-Butylbenzene       | U      |                   | 0.143  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| sec-Butylbenzene     | U      |                   | 0.134  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| tert-Butylbenzene    | U      |                   | 0.183  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Carbon disulfide     | 0.394  | <u>J</u>          | 0.101  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Carbon tetrachloride | U      |                   | 0.159  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |

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      |           |
| Chlorobenzene                  | U      |           | 0.140  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| Chlorodibromomethane           | U      |           | 0.128  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| Chloroethane                   | U      | JO        | 0.141  | 2.50  | 1        | 04/25/2019 19:49 | WG1271705 |
| Chloroform                     | U      |           | 0.0860 | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| Chloromethane                  | U      |           | 0.153  | 1.25  | 1        | 04/25/2019 19:49 | WG1271705 |
| 2-Chlorotoluene                | U      |           | 0.111  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| 4-Chlorotoluene                | U      |           | 0.0972 | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| 1,2-Dibromo-3-Chloropropane    | U      |           | 0.325  | 2.50  | 1        | 04/25/2019 19:49 | WG1271705 |
| 1,2-Dibromoethane              | U      |           | 0.193  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| Dibromomethane                 | U      |           | 0.117  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| 1,2-Dichlorobenzene            | U      |           | 0.101  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| 1,3-Dichlorobenzene            | U      |           | 0.130  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| 1,4-Dichlorobenzene            | U      |           | 0.121  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| Dichlorodifluoromethane        | U      |           | 0.127  | 2.50  | 1        | 04/25/2019 19:49 | WG1271705 |
| 1,1-Dichloroethane             | U      |           | 0.114  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| 1,2-Dichloroethane             | U      |           | 0.108  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| 1,1-Dichloroethene             | U      |           | 0.188  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| cis-1,2-Dichloroethene         | 1.07   |           | 0.0933 | 0.500 | 1        | 05/01/2019 02:20 | WG1274056 |
| trans-1,2-Dichloroethene       | U      |           | 0.152  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| 1,2-Dichloropropane            | U      |           | 0.190  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| 1,1-Dichloropropene            | U      |           | 0.128  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| 1,3-Dichloropropane            | U      |           | 0.147  | 1.00  | 1        | 04/25/2019 19:49 | WG1271705 |
| cis-1,3-Dichloropropene        | U      |           | 0.0976 | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| trans-1,3-Dichloropropene      | U      |           | 0.222  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| trans-1,4-Dichloro-2-butene    | U      |           | 0.257  | 5.00  | 1        | 04/25/2019 19:49 | WG1271705 |
| 2,2-Dichloropropane            | U      |           | 0.0929 | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| Di-isopropyl ether             | U      |           | 0.0924 | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| Ethylbenzene                   | U      |           | 0.158  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| Hexachloro-1,3-butadiene       | U      |           | 0.157  | 1.00  | 1        | 04/25/2019 19:49 | WG1271705 |
| 2-Hexanone                     | U      |           | 0.757  | 5.00  | 1        | 04/25/2019 19:49 | WG1271705 |
| n-Hexane                       | U      |           | 0.305  | 5.00  | 1        | 04/25/2019 19:49 | WG1271705 |
| Iodomethane                    | U      |           | 0.377  | 10.0  | 1        | 04/25/2019 19:49 | WG1271705 |
| Isopropylbenzene               | U      |           | 0.126  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| p-Isopropyltoluene             | U      |           | 0.138  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| 2-Butanone (MEK)               | U      |           | 1.28   | 5.00  | 1        | 04/25/2019 19:49 | WG1271705 |
| Methylene Chloride             | U      |           | 1.07   | 2.50  | 1        | 04/25/2019 19:49 | WG1271705 |
| 4-Methyl-2-pentanone (MIBK)    | U      |           | 0.823  | 5.00  | 1        | 04/25/2019 19:49 | WG1271705 |
| Methyl tert-butyl ether        | U      |           | 0.102  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| Naphthalene                    | U      |           | 0.174  | 2.50  | 1        | 04/25/2019 19:49 | WG1271705 |
| n-Propylbenzene                | U      |           | 0.162  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| Styrene                        | U      |           | 0.117  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| 1,1,1,2-Tetrachloroethane      | U      |           | 0.120  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| 1,1,2,2-Tetrachloroethane      | U      |           | 0.130  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| 1,1,2-Trichlorotrifluoroethane | U      |           | 0.164  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| Tetrachloroethene              | U      |           | 0.199  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| Toluene                        | U      |           | 0.412  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| 1,2,3-Trichlorobenzene         | U      |           | 0.164  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| 1,2,4-Trichlorobenzene         | U      |           | 0.355  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| 1,1,1-Trichloroethane          | U      |           | 0.0940 | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| 1,1,2-Trichloroethane          | U      |           | 0.186  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| Trichloroethene                | U      |           | 0.153  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| Trichlorofluoromethane         | U      | JO        | 0.130  | 2.50  | 1        | 04/25/2019 19:49 | WG1271705 |
| 1,2,3-Trichloropropane         | U      |           | 0.247  | 2.50  | 1        | 04/25/2019 19:49 | WG1271705 |
| 1,2,4-Trimethylbenzene         | U      |           | 0.123  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| 1,2,3-Trimethylbenzene         | U      |           | 0.0739 | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |
| 1,3,5-Trimethylbenzene         | U      |           | 0.124  | 0.500 | 1        | 04/25/2019 19:49 | WG1271705 |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|----------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate                    | U              |           | 0.645       | 5.00        | 1        | 04/25/2019 19:49        | <a href="#">WG1271705</a> |
| Vinyl chloride                   | 2.69           |           | 0.118       | 0.500       | 1        | 05/01/2019 02:20        | <a href="#">WG1274056</a> |
| Xylenes, Total                   | U              |           | 0.316       | 1.50        | 1        | 04/25/2019 19:49        | <a href="#">WG1271705</a> |
| <i>(S) Toluene-d8</i>            | 103            |           |             | 80.0-120    |          | 04/25/2019 19:49        | <a href="#">WG1271705</a> |
| <i>(S) Toluene-d8</i>            | 103            |           |             | 80.0-120    |          | 05/01/2019 02:20        | <a href="#">WG1274056</a> |
| <i>(S) 4-Bromofluorobenzene</i>  | 103            |           |             | 77.0-126    |          | 04/25/2019 19:49        | <a href="#">WG1271705</a> |
| <i>(S) 4-Bromofluorobenzene</i>  | 97.4           |           |             | 77.0-126    |          | 05/01/2019 02:20        | <a href="#">WG1274056</a> |
| <i>(S) 1,2-Dichloroethane-d4</i> | 97.4           |           |             | 70.0-130    |          | 04/25/2019 19:49        | <a href="#">WG1271705</a> |
| <i>(S) 1,2-Dichloroethane-d4</i> | 103            |           |             | 70.0-130    |          | 05/01/2019 02:20        | <a href="#">WG1274056</a> |

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



Collected date/time: 04/24/19 00:00

L1092400

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | U              |           | 31.6        | 100         | 1        | 04/26/2019 01:41        | <a href="#">WG1272107</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111            |           |             | 78.0-120    |          | 04/26/2019 01:41        | <a href="#">WG1272107</a> |

1 Cp

2 Tc

3 Ss

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

| Analyte                     | Result<br>ug/l | Qualifier  | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|------------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | 1.76           | J J0 J3 J4 | 1.05        | 25.0        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Acrylonitrile               | U              |            | 0.873       | 5.00        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Benzene                     | U              |            | 0.0896      | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Bromobenzene                | U              |            | 0.133       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Bromodichloromethane        | U              |            | 0.0800      | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Bromochloromethane          | U              |            | 0.145       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Bromoform                   | U              |            | 0.186       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Bromomethane                | U              | J0         | 0.157       | 2.50        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| n-Butylbenzene              | U              |            | 0.143       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| sec-Butylbenzene            | U              |            | 0.134       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| tert-Butylbenzene           | U              |            | 0.183       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Carbon disulfide            | U              |            | 0.101       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Carbon tetrachloride        | U              |            | 0.159       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Chlorobenzene               | U              |            | 0.140       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Chlorodibromomethane        | U              |            | 0.128       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Chloroethane                | U              | J0         | 0.141       | 2.50        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Chloroform                  | U              |            | 0.0860      | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Chloromethane               | U              |            | 0.153       | 1.25        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 2-Chlorotoluene             | U              |            | 0.111       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 4-Chlorotoluene             | U              |            | 0.0972      | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,2-Dibromo-3-Chloropropane | U              |            | 0.325       | 2.50        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,2-Dibromoethane           | U              |            | 0.193       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Dibromomethane              | U              |            | 0.117       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,2-Dichlorobenzene         | U              |            | 0.101       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,3-Dichlorobenzene         | U              |            | 0.130       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,4-Dichlorobenzene         | U              |            | 0.121       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Dichlorodifluoromethane     | U              |            | 0.127       | 2.50        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,1-Dichloroethane          | U              |            | 0.114       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,2-Dichloroethane          | U              |            | 0.108       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,1-Dichloroethene          | U              |            | 0.188       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| cis-1,2-Dichloroethene      | U              |            | 0.0933      | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| trans-1,2-Dichloroethene    | U              |            | 0.152       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,2-Dichloropropane         | U              |            | 0.190       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,1-Dichloropropene         | U              |            | 0.128       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,3-Dichloropropane         | U              |            | 0.147       | 1.00        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| cis-1,3-Dichloropropene     | U              |            | 0.0976      | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| trans-1,3-Dichloropropene   | U              |            | 0.222       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| trans-1,4-Dichloro-2-butene | U              |            | 0.257       | 5.00        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 2,2-Dichloropropane         | U              |            | 0.0929      | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Di-isopropyl ether          | U              |            | 0.0924      | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Ethylbenzene                | U              |            | 0.158       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Hexachloro-1,3-butadiene    | U              |            | 0.157       | 1.00        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 2-Hexanone                  | U              |            | 0.757       | 5.00        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| n-Hexane                    | U              |            | 0.305       | 5.00        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Iodomethane                 | U              |            | 0.377       | 10.0        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Isopropylbenzene            | U              |            | 0.126       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| p-Isopropyltoluene          | U              |            | 0.138       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 2-Butanone (MEK)            | U              |            | 1.28        | 5.00        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/24/19 00:00

L1092400

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Vinyl acetate                  | U              |           | 0.645       | 5.00        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Vinyl chloride                 | U              | <u>JO</u> | 0.118       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| (S) Toluene-d8                 | 101            |           |             | 80.0-120    |          | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| (S) 4-Bromofluorobenzene       | 105            |           |             | 77.0-126    |          | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| (S) 1,2-Dichloroethane-d4      | 92.8           |           |             | 70.0-130    |          | 04/25/2019 16:28        | <a href="#">WG1271705</a> |

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





Method Blank (MB)

(MB) R3406816-1 04/30/19 12:58

| Analyte    | MB Result | MB Qualifier | MB MDL | MB RDL |
|------------|-----------|--------------|--------|--------|
| Alkalinity | 3160      | ↓            | 2710   | 20000  |

Sample Narrative:

BLANK: Endpoint pH 4.5

L1092253-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1092253-04 04/30/19 13:12 • (DUP) R3406816-5 04/30/19 13:18

| Analyte    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------|-----------------|------------|----------|---------|---------------|----------------|
| Alkalinity | 50900           | 52200      | 1        | 2.61    |               | 20             |

Sample Narrative:

OS: Endpoint pH 4.5 headspace  
DUP: Endpoint pH 4.5

L1092421-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1092421-01 04/30/19 15:52 • (DUP) R3406816-10 04/30/19 15:59

| Analyte    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------|-----------------|------------|----------|---------|---------------|----------------|
| Alkalinity | 61300           | 57900      | 1        | 5.61    |               | 20             |

Sample Narrative:

OS: Endpoint pH 4.5 headspace  
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3406816-9 04/30/19 14:01

| Analyte    | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|------------|--------------|------------|----------|-------------|---------------|
| Alkalinity | 100000       | 99300      | 99.3     | 85.0-115    |               |

Sample Narrative:

LCS: Endpoint pH 4.5

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3405679-1 04/25/19 23:42

| 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   |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1092353-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1092353-01 04/26/19 00:27 • (DUP) R3405679-3 04/26/19 00:38

| Analyte  | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
|          | ug/l            | ug/l       |          | %       |               | %              |
| Chloride | 16600           | 16100      | 1        | 3.08    |               | 15             |
| Nitrate  | U               | 0.000      | 1        | 0.000   |               | 15             |
| Sulfate  | 20000           | 19200      | 1        | 4.16    |               | 15             |

L1092400-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1092400-04 04/26/19 03:10 • (DUP) R3405679-6 04/26/19 03:21

| Analyte  | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
|          | ug/l            | ug/l       |          | %       |               | %              |
| Chloride | 9400            | 9560       | 1        | 1.76    |               | 15             |
| Nitrate  | U               | 0.000      | 1        | 0.000   |               | 15             |
| Sulfate  | 9230            | 9330       | 1        | 1.03    |               | 15             |

Laboratory Control Sample (LCS)

(LCS) R3405679-2 04/25/19 23:53

| Analyte  | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------|--------------|------------|----------|-------------|---------------|
|          | ug/l         | ug/l       | %        | %           |               |
| Chloride | 40000        | 40100      | 100      | 80.0-120    |               |
| Nitrate  | 8000         | 7890       | 98.7     | 80.0-120    |               |
| Sulfate  | 40000        | 40900      | 102      | 80.0-120    |               |



L1092353-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1092353-01 04/26/19 00:27 • (MS) R3405679-4 04/26/19 00:49 • (MSD) R3405679-5 04/26/19 00:59

| Analyte  | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MSD Result<br>ug/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Chloride | 50000                | 16600                   | 65100             | 65100              | 97.0         | 96.9          | 1        | 80.0-120         |              |               | 0.0978   | 15              |
| Nitrate  | 5000                 | U                       | 4610              | 4610               | 92.1         | 92.2          | 1        | 80.0-120         |              |               | 0.126    | 15              |
| Sulfate  | 50000                | 20000                   | 67300             | 67100              | 94.7         | 94.3          | 1        | 80.0-120         |              |               | 0.292    | 15              |

L1092400-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1092400-04 04/26/19 03:10 • (MS) R3405679-7 04/26/19 03:32

| Analyte  | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MS Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier |
|----------|----------------------|-------------------------|-------------------|--------------|----------|------------------|--------------|
| Chloride | 50000                | 9400                    | 59000             | 99.1         | 1        | 80.0-120         |              |
| Nitrate  | 5000                 | U                       | 4710              | 94.2         | 1        | 80.0-120         |              |
| Sulfate  | 50000                | 9230                    | 58100             | 97.8         | 1        | 80.0-120         |              |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3406579-1 04/29/19 14:21

| Analyte                    | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------------------|-----------|--------------|--------|--------|
| TOC (Total Organic Carbon) | 568       | ↓            | 102    | 1000   |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1092307-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1092307-01 04/29/19 16:13 • (DUP) R3406579-3 04/29/19 16:31

| Analyte                    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------------------------|-----------------|------------|----------|---------|---------------|----------------|
| TOC (Total Organic Carbon) | 48600           | 48400      | 1        | 0.516   |               | 20             |

L1092431-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1092431-08 04/30/19 01:31 • (DUP) R3406579-8 04/30/19 01:49

| Analyte                    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------------------------|-----------------|------------|----------|---------|---------------|----------------|
| TOC (Total Organic Carbon) | 8550            | 8900       | 1        | 3.99    |               | 20             |

Laboratory Control Sample (LCS)

(LCS) R3406579-2 04/29/19 14:58

| Analyte                    | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------------------------|--------------|------------|----------|-------------|---------------|
| TOC (Total Organic Carbon) | 75000        | 78700      | 105      | 85.0-115    |               |

L1092400-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1092400-02 04/29/19 19:49 • (MS) R3406579-4 04/29/19 20:11 • (MSD) R3406579-5 04/29/19 20:29

| Analyte                    | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD  | RPD Limits |
|----------------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| TOC (Total Organic Carbon) | 50000        | 4950            | 56200     | 55400      | 102     | 101      | 1        | 80.0-120    |              |               | 1.36 | 20         |

L1092412-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1092412-06 04/30/19 00:16 • (MS) R3406579-6 04/30/19 00:34 • (MSD) R3406579-7 04/30/19 00:52

| Analyte                    | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD   | RPD Limits |
|----------------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| TOC (Total Organic Carbon) | 50000        | ND              | 50800     | 51000      | 101     | 101      | 1        | 80.0-120    |              |               | 0.314 | 20         |



Method Blank (MB)

(MB) R3406378-1 04/29/19 13:02

| Analyte   | MB Result | MB Qualifier | MB MDL | MB RDL |
|-----------|-----------|--------------|--------|--------|
| 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) R3406378-2 04/29/19 13:07 • (LCSD) R3406378-3 04/29/19 13:12

| Analyte   | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |
|-----------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| Iron      | 500          | 490        | 480         | 98.0     | 96.1      | 80.0-120    |               |                | 1.92 | 20         |
| Manganese | 50.0         | 48.4       | 47.0        | 96.7     | 94.0      | 80.0-120    |               |                | 2.85 | 20         |

L1092217-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1092217-01 04/29/19 13:18 • (MS) R3406378-5 04/29/19 13:28 • (MSD) R3406378-6 04/29/19 13:33

| Analyte   | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD  | RPD Limits |
|-----------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Iron      | 500          | 2630            | 2940      | 3550       | 61.9    | 185      | 1        | 75.0-125    | √            | √             | 19.0 | 20         |
| Manganese | 50.0         | 2630            | 2730      | 2770       | 195     | 272      | 1        | 75.0-125    | √            | √             | 1.38 | 20         |



Method Blank (MB)

(MB) R3406246-2 04/25/19 22:30

| Analyte                            | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| Gasoline Range<br>Organics-NWTPH   | U                 |              | 31.6           | 100            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 111               |              |                | 78.0-120       |

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3406246-1 04/25/19 21:42

| Analyte                            | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|----------------------|--------------------|---------------|------------------|---------------|
| Gasoline Range<br>Organics-NWTPH   | 5500                 | 6260               | 114           | 70.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                    | 94.6          | 78.0-120         |               |

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3407661-1 05/02/19 12:59

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------|-----------|--------------|--------|--------|
|         | ug/l      |              | ug/l   | 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

Method Blank (MB)

(MB) R3407661-2 05/02/19 13:58

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------|-----------|--------------|--------|--------|
|         | ug/l      |              | ug/l   | ug/l   |
| Methane | U         |              | 0.287  | 0.678  |
| Ethane  | U         |              | 0.296  | 1.29   |
| Ethene  | U         |              | 0.422  | 1.27   |

5 Sr

6 Qc

7 Gl

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

(LCS) R3407661-4 05/02/19 15:40 • (LCSD) R3407661-5 05/02/19 15:49

| 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        | %        | %         | %           |               |                | %    | %          |
| Methane | 67.8         | 72.0       | 77.7        | 106      | 115       | 85.0-115    |               |                | 7.60 | 20         |
| Ethane  | 129          | 117        | 120         | 90.5     | 93.2      | 85.0-115    |               |                | 2.96 | 20         |
| Ethene  | 127          | 116        | 119         | 91.7     | 93.5      | 85.0-115    |               |                | 1.95 | 20         |

8 Al

9 Sc



Method Blank (MB)

(MB) R3406794-3 04/25/19 10:03

| Analyte                     | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>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          |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Method Blank (MB)

(MB) R3406794-3 04/25/19 10:03

| Analyte                        | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|--------------------------------|-------------------|--------------|----------------|----------------|
| Ethylbenzene                   | U                 |              | 0.158          | 0.500          |
| Hexachloro-1,3-butadiene       | 0.239             | 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                 | 101               |              |                | 80.0-120       |
| (S) 4-Bromofluorobenzene       | 105               |              |                | 77.0-126       |
| (S) 1,2-Dichloroethane-d4      | 94.7              |              |                | 70.0-130       |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



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

(LCS) R3406794-1 04/25/19 09:03 • (LCSD) R3406794-2 04/25/19 09:23

| Analyte                     | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Acetone                     | 125                  | 205                | 144                 | 164           | 115            | 19.0-160         | J4            | J3             | 34.8     | 27              |
| Acrylonitrile               | 125                  | 160                | 156                 | 128           | 125            | 55.0-149         |               |                | 2.36     | 20              |
| Benzene                     | 25.0                 | 26.0               | 26.1                | 104           | 104            | 70.0-123         |               |                | 0.383    | 20              |
| Bromobenzene                | 25.0                 | 23.4               | 23.6                | 93.5          | 94.5           | 73.0-121         |               |                | 1.10     | 20              |
| Bromodichloromethane        | 25.0                 | 22.3               | 22.3                | 89.3          | 89.2           | 75.0-120         |               |                | 0.142    | 20              |
| Bromochloromethane          | 25.0                 | 23.5               | 23.3                | 94.2          | 93.0           | 76.0-122         |               |                | 1.20     | 20              |
| Bromoform                   | 25.0                 | 26.4               | 27.0                | 106           | 108            | 68.0-132         |               |                | 2.26     | 20              |
| Bromomethane                | 25.0                 | 17.7               | 17.6                | 70.8          | 70.5           | 10.0-160         |               |                | 0.433    | 25              |
| n-Butylbenzene              | 25.0                 | 23.2               | 22.8                | 92.7          | 91.2           | 73.0-125         |               |                | 1.67     | 20              |
| sec-Butylbenzene            | 25.0                 | 23.9               | 23.3                | 95.6          | 93.1           | 75.0-125         |               |                | 2.69     | 20              |
| tert-Butylbenzene           | 25.0                 | 24.5               | 24.0                | 98.0          | 96.1           | 76.0-124         |               |                | 1.94     | 20              |
| Carbon disulfide            | 25.0                 | 28.4               | 31.0                | 113           | 124            | 61.0-128         |               |                | 8.82     | 20              |
| Carbon tetrachloride        | 25.0                 | 23.9               | 23.9                | 95.5          | 95.5           | 68.0-126         |               |                | 0.0359   | 20              |
| Chlorobenzene               | 25.0                 | 24.0               | 24.2                | 96.1          | 96.6           | 80.0-121         |               |                | 0.523    | 20              |
| Chlorodibromomethane        | 25.0                 | 23.5               | 24.0                | 94.2          | 96.0           | 77.0-125         |               |                | 1.90     | 20              |
| Chloroethane                | 25.0                 | 15.0               | 17.2                | 60.1          | 69.0           | 47.0-150         |               |                | 13.7     | 20              |
| Chloroform                  | 25.0                 | 22.0               | 21.9                | 87.8          | 87.8           | 73.0-120         |               |                | 0.0352   | 20              |
| Chloromethane               | 25.0                 | 26.3               | 26.2                | 105           | 105            | 41.0-142         |               |                | 0.338    | 20              |
| 2-Chlorotoluene             | 25.0                 | 23.1               | 22.8                | 92.6          | 91.0           | 76.0-123         |               |                | 1.66     | 20              |
| 4-Chlorotoluene             | 25.0                 | 23.4               | 23.2                | 93.5          | 93.0           | 75.0-122         |               |                | 0.522    | 20              |
| 1,2-Dibromo-3-Chloropropane | 25.0                 | 28.4               | 27.7                | 114           | 111            | 58.0-134         |               |                | 2.76     | 20              |
| 1,2-Dibromoethane           | 25.0                 | 23.3               | 23.7                | 93.0          | 94.8           | 80.0-122         |               |                | 1.90     | 20              |
| Dibromomethane              | 25.0                 | 22.7               | 22.5                | 90.7          | 90.0           | 80.0-120         |               |                | 0.716    | 20              |
| 1,2-Dichlorobenzene         | 25.0                 | 23.9               | 23.4                | 95.5          | 93.5           | 79.0-121         |               |                | 2.08     | 20              |
| 1,3-Dichlorobenzene         | 25.0                 | 23.5               | 23.2                | 94.0          | 93.0           | 79.0-120         |               |                | 1.05     | 20              |
| 1,4-Dichlorobenzene         | 25.0                 | 22.7               | 22.5                | 91.0          | 89.9           | 79.0-120         |               |                | 1.15     | 20              |
| Dichlorodifluoromethane     | 25.0                 | 26.3               | 26.2                | 105           | 105            | 51.0-149         |               |                | 0.238    | 20              |
| 1,1-Dichloroethane          | 25.0                 | 24.8               | 24.6                | 99.4          | 98.3           | 70.0-126         |               |                | 1.12     | 20              |
| 1,2-Dichloroethane          | 25.0                 | 20.8               | 20.8                | 83.1          | 83.1           | 70.0-128         |               |                | 0.0641   | 20              |
| 1,1-Dichloroethene          | 25.0                 | 25.0               | 25.4                | 100           | 102            | 71.0-124         |               |                | 1.62     | 20              |
| cis-1,2-Dichloroethene      | 25.0                 | 23.9               | 23.7                | 95.7          | 94.7           | 73.0-120         |               |                | 1.11     | 20              |
| trans-1,2-Dichloroethene    | 25.0                 | 24.9               | 24.9                | 99.6          | 99.4           | 73.0-120         |               |                | 0.115    | 20              |
| 1,2-Dichloropropane         | 25.0                 | 26.5               | 26.5                | 106           | 106            | 77.0-125         |               |                | 0.267    | 20              |
| 1,1-Dichloropropene         | 25.0                 | 24.9               | 24.8                | 99.4          | 99.1           | 74.0-126         |               |                | 0.298    | 20              |
| 1,3-Dichloropropane         | 25.0                 | 24.6               | 25.1                | 98.6          | 100            | 80.0-120         |               |                | 1.86     | 20              |
| cis-1,3-Dichloropropene     | 25.0                 | 24.0               | 24.2                | 96.2          | 96.7           | 80.0-123         |               |                | 0.513    | 20              |
| trans-1,3-Dichloropropene   | 25.0                 | 23.3               | 23.5                | 93.2          | 94.1           | 78.0-124         |               |                | 0.936    | 20              |
| trans-1,4-Dichloro-2-butene | 25.0                 | 20.7               | 19.7                | 83.0          | 78.6           | 33.0-144         |               |                | 5.42     | 20              |
| 2,2-Dichloropropane         | 25.0                 | 32.0               | 31.4                | 128           | 126            | 58.0-130         |               |                | 2.05     | 20              |
| Di-isopropyl ether          | 25.0                 | 27.7               | 27.6                | 111           | 110            | 58.0-138         |               |                | 0.601    | 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) R3406794-1 04/25/19 09:03 • (LCSD) R3406794-2 04/25/19 09:23

| Analyte                        | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|--------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Ethylbenzene                   | 25.0                 | 24.4               | 24.7                | 97.5          | 98.9           | 79.0-123         |               |                | 1.46     | 20              |
| Hexachloro-1,3-butadiene       | 25.0                 | 31.2               | 30.4                | 125           | 122            | 54.0-138         |               |                | 2.57     | 20              |
| 2-Hexanone                     | 125                  | 147                | 146                 | 117           | 117            | 67.0-149         |               |                | 0.700    | 20              |
| n-Hexane                       | 25.0                 | 29.2               | 28.6                | 117           | 114            | 57.0-133         |               |                | 2.29     | 20              |
| Iodomethane                    | 125                  | 134                | 128                 | 107           | 102            | 33.0-147         |               |                | 4.64     | 26              |
| Isopropylbenzene               | 25.0                 | 25.6               | 26.1                | 103           | 104            | 76.0-127         |               |                | 1.66     | 20              |
| p-Isopropyltoluene             | 25.0                 | 24.2               | 23.8                | 96.8          | 95.1           | 76.0-125         |               |                | 1.85     | 20              |
| 2-Butanone (MEK)               | 125                  | 165                | 156                 | 132           | 125            | 44.0-160         |               |                | 5.34     | 20              |
| Methylene Chloride             | 25.0                 | 24.7               | 24.5                | 98.8          | 98.1           | 67.0-120         |               |                | 0.726    | 20              |
| 4-Methyl-2-pentanone (MIBK)    | 125                  | 143                | 142                 | 114           | 114            | 68.0-142         |               |                | 0.369    | 20              |
| Methyl tert-butyl ether        | 25.0                 | 23.7               | 23.4                | 94.7          | 93.6           | 68.0-125         |               |                | 1.16     | 20              |
| Naphthalene                    | 25.0                 | 25.1               | 24.5                | 100           | 98.1           | 54.0-135         |               |                | 2.40     | 20              |
| n-Propylbenzene                | 25.0                 | 23.0               | 23.0                | 92.1          | 91.9           | 77.0-124         |               |                | 0.261    | 20              |
| Styrene                        | 25.0                 | 26.6               | 27.4                | 106           | 110            | 73.0-130         |               |                | 3.12     | 20              |
| 1,1,1,2-Tetrachloroethane      | 25.0                 | 24.1               | 24.0                | 96.2          | 96.2           | 75.0-125         |               |                | 0.0553   | 20              |
| 1,1,2,2-Tetrachloroethane      | 25.0                 | 22.8               | 22.7                | 91.3          | 90.8           | 65.0-130         |               |                | 0.553    | 20              |
| 1,1,2-Trichlorotrifluoroethane | 25.0                 | 23.4               | 24.1                | 93.6          | 96.5           | 69.0-132         |               |                | 3.14     | 20              |
| Tetrachloroethene              | 25.0                 | 25.8               | 25.8                | 103           | 103            | 72.0-132         |               |                | 0.287    | 20              |
| Toluene                        | 25.0                 | 25.9               | 26.1                | 103           | 104            | 79.0-120         |               |                | 0.981    | 20              |
| 1,2,3-Trichlorobenzene         | 25.0                 | 25.7               | 24.4                | 103           | 97.5           | 50.0-138         |               |                | 5.36     | 20              |
| 1,2,4-Trichlorobenzene         | 25.0                 | 26.6               | 25.2                | 107           | 101            | 57.0-137         |               |                | 5.53     | 20              |
| 1,1,1-Trichloroethane          | 25.0                 | 23.7               | 23.8                | 94.9          | 95.3           | 73.0-124         |               |                | 0.433    | 20              |
| 1,1,2-Trichloroethane          | 25.0                 | 22.8               | 22.6                | 91.3          | 90.4           | 80.0-120         |               |                | 0.971    | 20              |
| Trichloroethene                | 25.0                 | 25.1               | 25.2                | 100           | 101            | 78.0-124         |               |                | 0.572    | 20              |
| Trichlorofluoromethane         | 25.0                 | 15.2               | 16.5                | 60.9          | 65.9           | 59.0-147         |               |                | 7.93     | 20              |
| 1,2,3-Trichloropropane         | 25.0                 | 21.1               | 20.9                | 84.4          | 83.5           | 73.0-130         |               |                | 1.11     | 20              |
| 1,2,4-Trimethylbenzene         | 25.0                 | 22.8               | 22.6                | 91.2          | 90.5           | 76.0-121         |               |                | 0.774    | 20              |
| 1,2,3-Trimethylbenzene         | 25.0                 | 22.4               | 21.8                | 89.8          | 87.2           | 77.0-120         |               |                | 2.96     | 20              |
| 1,3,5-Trimethylbenzene         | 25.0                 | 23.4               | 22.6                | 93.5          | 90.5           | 76.0-122         |               |                | 3.16     | 20              |
| Vinyl acetate                  | 125                  | 119                | 120                 | 95.4          | 95.7           | 11.0-160         |               |                | 0.361    | 20              |
| Vinyl chloride                 | 25.0                 | 17.8               | 17.9                | 71.3          | 71.7           | 67.0-131         |               |                | 0.499    | 20              |
| Xylenes, Total                 | 75.0                 | 74.9               | 75.0                | 99.9          | 100            | 79.0-123         |               |                | 0.133    | 20              |
| (S) Toluene-d8                 |                      |                    |                     | 101           | 100            | 80.0-120         |               |                |          |                 |
| (S) 4-Bromofluorobenzene       |                      |                    |                     | 105           | 107            | 77.0-126         |               |                |          |                 |
| (S) 1,2-Dichloroethane-d4      |                      |                    |                     | 92.7          | 99.9           | 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) R3406890-2 05/01/19 01:15

| Analyte                   | MB Result | MB Qualifier | MB MDL | MB RDL   |
|---------------------------|-----------|--------------|--------|----------|
|                           | ug/l      |              | ug/l   | ug/l     |
| cis-1,2-Dichloroethene    | U         |              | 0.0933 | 0.500    |
| Vinyl chloride            | U         |              | 0.118  | 0.500    |
| (S) Toluene-d8            | 104       |              |        | 80.0-120 |
| (S) 4-Bromofluorobenzene  | 98.3      |              |        | 77.0-126 |
| (S) 1,2-Dichloroethane-d4 | 102       |              |        | 70.0-130 |

Laboratory Control Sample (LCS)

(LCS) R3406890-1 05/01/19 00:32

| Analyte                   | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------------------------|--------------|------------|----------|-------------|---------------|
|                           | ug/l         | ug/l       | %        | %           |               |
| cis-1,2-Dichloroethene    | 25.0         | 29.9       | 120      | 73.0-120    |               |
| Vinyl chloride            | 25.0         | 32.6       | 131      | 67.0-131    |               |
| (S) Toluene-d8            |              |            | 102      | 80.0-120    |               |
| (S) 4-Bromofluorobenzene  |              |            | 100      | 77.0-126    |               |
| (S) 1,2-Dichloroethane-d4 |              |            | 103      | 70.0-130    |               |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> 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. |
| 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 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 <sup>1</sup>     | n/a              |
| Colorado                | TN00003     | New York                    | 11742            |
| Connecticut             | PH-0197     | North Carolina              | Env375           |
| Florida                 | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                 | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>    | 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 <sup>1,6</sup> | 90010       | South Carolina              | 84004            |
| Kentucky <sup>2</sup>   | 16          | South Dakota                | n/a              |
| Louisiana               | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana <sup>1</sup>  | LA180010    | Texas                       | T104704245-18-15 |
| Maine                   | TN0002      | Texas <sup>5</sup>          | 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             |

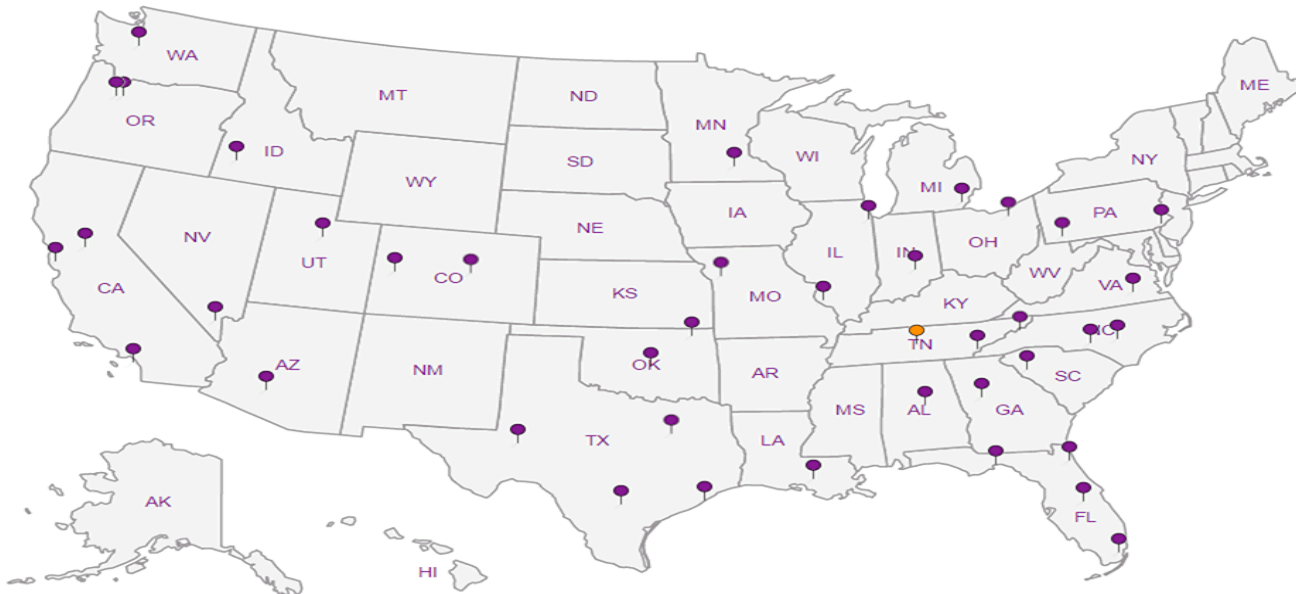
## Third Party Federal Accreditations

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

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



**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

Analysis / Container / Preservative

Chain of Custody Page

Report for:  
**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):  
*Ben Hecht*

Site/Facility ID #  
*American Linen*

P.O. #

Collected by (signature):  
*[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

Pres Chk

\*NO3,SO4,LT\* 125ml HDPE-NoPres

Alkalinity 125mlHDPE-NoPres

EEM (RSK1;5LI) 40mlAmb-HCl

TOC 250mlAmo-HCl

Total Fe Mn 6020 250mlHDPE-HNO3 *12*

*VOC 8260*

*GRO (VWRPT-G+)*

| Sample ID          | Comp/Grab | Matrix * | Depth | Date | Time    | No. of Cntrs |
|--------------------|-----------|----------|-------|------|---------|--------------|
| MW-909-042419      | Grab      | GW       | 130   | 0820 | 4/24/19 | 12           |
| MW146-042419       |           | GW       | 45    | 0955 | " "     | 12           |
| MW-154-042419      |           | GW       | 30    | 1140 | " "     | 6            |
| MW-153-042419      | ✓         | GW       | 125   | 1255 | ↓ 9/12  | 1            |
| TRIP IS/AMC-042419 | -         | GW       | -     | -    | -       | 1            |
|                    |           | GW       |       |      |         |              |
|                    |           | GW       |       |      |         |              |
|                    |           | GW       |       |      |         |              |
|                    |           | GW       |       |      |         |              |
|                    |           | GW       |       |      |         |              |

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - Waste Water  
DW - Drinking Water  
O - Other

Remarks:

Samples returned via:  
 UPS  FedEx  Courier

Tracking # *Fedex 4876 1086 2011*

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

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

Relinquished by: (Signature)  
*[Signature]*

Date: *4-24-19* Time: *16:15*

Received by: (Signature)

Trip Blank Received: Yes / No  
 HCL/MeOH  
 TBW

Relinquished by: (Signature)

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature)

Temp: \_\_\_\_\_ °C  
Bottles received: *37*

If preservation required by Login: Date/Tin  
*05*

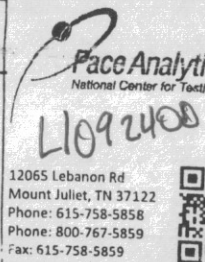
Relinquished by: (Signature)

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received for lab by: (Signature)  
*[Signature]*

Date: *4/25/19* Time: *8:45*

Hold: \_\_\_\_\_ Condition: \_\_\_\_\_



L# **C229**  
Account: **PESENVSWA**  
Template: **T143845**  
Prelogin: **P701221**  
TSR: 110 - Brian Ford  
PB: **JB 4-1-19**  
Shipped Via: **FedEX Gro**

Remarks Sample # (I)  
-01  
-02  
-03  
-04  
VOC GRO -05  
*cont.*

**ES Environmental, Inc. - WA**

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

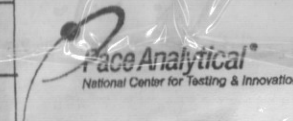
Billing Information:

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](mailto:boneal@pesenv.com);  
[bhaldeman@pesenv.com](mailto:bhaldeman@pesenv.com);

Project Description: *American Linsen*

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):  
*Ben Hecht*

Site/Facility ID #  
*American Linsen*

P.O. #

Collected by (signature):  
*[Signature]*  
Immediately Packed on Ice N  Y

Rush? (Lab MUST Be Notified)

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

Quote #

Date Results Needed

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 | TOC 250mlAmb-HCl | Total Fe Mn 6020 250mlHDPE-HNO3 | VOC 8268 | GRO (NWRPH-GX) |
|--------------------|-----------|----------|-------|------|---------|--------------|----------------------------------|-----------------------------|----------------------------|------------------|---------------------------------|----------|----------------|
| MW-909-042419      | Grab      | GW       | 130   | 0820 | 4/24/19 | 12           | X                                | X                           | X                          | X                | X                               | X        | X              |
| MW146-042419       | ↓         | GW       | 45    | 0955 |         | 12           | X                                | X                           | X                          | X                | X                               | X        | X              |
| MW-154-042419      | ↓         | GW       | 30    | 1140 |         | 6            | X                                | X                           | X                          | X                | X                               | X        | X              |
| MW-153-042419      | ↓         | GW       | 125   | 1255 | ↓       | 12           | X                                | X                           | X                          | X                | X                               | X        | X              |
| TRIP ISLAWC-042419 | -         | GW       | -     | -    | -       | 1            | X                                | X                           |                            |                  |                                 | X        | X              |
|                    |           | GW       |       |      |         |              |                                  |                             |                            |                  |                                 |          |                |
|                    |           | GW       |       |      |         |              |                                  |                             |                            |                  |                                 |          |                |
|                    |           | GW       |       |      |         |              |                                  |                             |                            |                  |                                 |          |                |
|                    |           | GW       |       |      |         |              |                                  |                             |                            |                  |                                 |          |                |
|                    |           | GW       |       |      |         |              |                                  |                             |                            |                  |                                 |          |                |

L# *L1092400*  
Table #  
Account: **PESENVSWA**  
Template: **T143845**  
Prelogin: **P701221**  
TSR: 110 - Brian Ford  
PB: *16 4-1-19*  
Shipped Via: **FedEx Ground**  
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

Tracking #

SCREEN: <0.6 mic

pH Temp  
Flow Other

Sample Receipt Checklist

GOC Seal Present/Intact:  NP  Y  N  
GOC 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)  
*[Signature]*

Date: *4-24-19*  
Time: *16:15*

Received by: (Signature)  
*[Signature]*

Trip Blank Received: Yes / No  
HCL / MeOH  
TBR

Relinquished by: (Signature)

Date: Time:

Received by: (Signature)

Temp: °C Bottles Received:

if preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: Time:

Received for lab by: (Signature)

Date: Time:

Hold: Condition: NCF / OK





Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 170000 |           | 2710 | 20000 | 1        | 04/30/2019 14:55 | <a href="#">WG1273429</a> |

Sample Narrative:

L1092400-01 WG1273429: Endpoint pH 4.5

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 9160   |           | 51.9 | 1000 | 1        | 04/26/2019 02:48 | <a href="#">WG1271706</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/26/2019 02:48 | <a href="#">WG1271706</a> |
| Sulfate  | 8910   |           | 77.4 | 5000 | 1        | 04/26/2019 02:48 | <a href="#">WG1271706</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier    | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|--------------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |              | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 4620   | <del>B</del> | 102  | 1000 | 1        | 04/29/2019 19:31 | <a href="#">WG1272243</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Iron      | 1590   | J         | 15.0 | 100  | 1        | 04/29/2019 15:46 | <a href="#">WG1271843</a> |
| Manganese | 305    |           | 1.25 | 25.0 | 5        | 04/29/2019 17:16 | <a href="#">WG1271843</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 04/26/2019 02:05 | <a href="#">WG1272107</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111    |           |      | 78.0-120 |          | 04/26/2019 02:05 | <a href="#">WG1272107</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 434    |           | 0.287 | 0.678 | 1        | 05/02/2019 14:17 | <a href="#">WG1272501</a> |
| Ethane  | U      |           | 0.296 | 1.29  | 1        | 05/02/2019 14:17 | <a href="#">WG1272501</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 05/02/2019 14:17 | <a href="#">WG1272501</a> |

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

| Analyte              | Result | Qualifier | MDL        | RDL   | Dilution | Analysis         | Batch                     |                           |
|----------------------|--------|-----------|------------|-------|----------|------------------|---------------------------|---------------------------|
|                      | ug/l   |           | ug/l       | ug/l  |          | date / time      |                           |                           |
| Acetone              | 2.21   | U         | J J0 J3 J4 | 1.05  | 25.0     | 1                | 04/25/2019 18:49          | <a href="#">WG1271705</a> |
| Acrylonitrile        | U      |           | 0.873      | 5.00  | 1        | 04/25/2019 18:49 | <a href="#">WG1271705</a> |                           |
| Benzene              | U      |           | 0.0896     | 0.500 | 1        | 04/25/2019 18:49 | <a href="#">WG1271705</a> |                           |
| Bromobenzene         | U      |           | 0.133      | 0.500 | 1        | 04/25/2019 18:49 | <a href="#">WG1271705</a> |                           |
| Bromodichloromethane | U      |           | 0.0800     | 0.500 | 1        | 04/25/2019 18:49 | <a href="#">WG1271705</a> |                           |
| Bromochloromethane   | U      |           | 0.145      | 0.500 | 1        | 04/25/2019 18:49 | <a href="#">WG1271705</a> |                           |
| Bromoform            | U      |           | 0.186      | 0.500 | 1        | 04/25/2019 18:49 | <a href="#">WG1271705</a> |                           |
| Bromomethane         | U      | UJ        | J0         | 0.157 | 2.50     | 1                | 04/25/2019 18:49          | <a href="#">WG1271705</a> |
| n-Butylbenzene       | U      |           | 0.143      | 0.500 | 1        | 04/25/2019 18:49 | <a href="#">WG1271705</a> |                           |
| sec-Butylbenzene     | U      |           | 0.134      | 0.500 | 1        | 04/25/2019 18:49 | <a href="#">WG1271705</a> |                           |
| tert-Butylbenzene    | U      |           | 0.183      | 0.500 | 1        | 04/25/2019 18:49 | <a href="#">WG1271705</a> |                           |
| Carbon disulfide     | 0.303  | J         | J          | 0.101 | 0.500    | 1                | 04/25/2019 18:49          | <a href="#">WG1271705</a> |
| Carbon tetrachloride | U      |           | 0.159      | 0.500 | 1        | 04/25/2019 18:49 | <a href="#">WG1271705</a> |                           |

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

JC 5/9/19



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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Chloroethane                   | U              | UJ JO     | 0.141       | 2.50        | 1        | 04/25/2019 18:49        | WG1271705 |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 04/25/2019 18:49        | WG1271705 |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,1-Dichloroethene             | U              |           | 0.188       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| cis-1,2-Dichloroethene         | 0.975          |           | 0.0933      | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| trans-1,2-Dichloroethene       | U              |           | 0.152       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 04/25/2019 18:49        | WG1271705 |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 04/25/2019 18:49        | WG1271705 |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 04/25/2019 18:49        | WG1271705 |
| 2-Hexanone                     | U              |           | 0.757       | 5.00        | 1        | 04/25/2019 18:49        | WG1271705 |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 04/25/2019 18:49        | WG1271705 |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 04/25/2019 18:49        | WG1271705 |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 04/25/2019 18:49        | WG1271705 |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/25/2019 18:49        | WG1271705 |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/25/2019 18:49        | WG1271705 |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/25/2019 18:49        | WG1271705 |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/25/2019 18:49        | WG1271705 |

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

JC 5/9/19



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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 04/25/2019 18:49        | <a href="#">WG1271705</a> |
| Vinyl chloride            | 1.66           | J JO      | 0.118       | 0.500       | 1        | 04/25/2019 18:49        | <a href="#">WG1271705</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/25/2019 18:49        | <a href="#">WG1271705</a> |
| (S) Toluene-d8            | 101            |           |             | 80.0-120    |          | 04/25/2019 18:49        | <a href="#">WG1271705</a> |
| (S) 4-Bromofluorobenzene  | 106            |           |             | 77.0-126    |          | 04/25/2019 18:49        | <a href="#">WG1271705</a> |
| (S) 1,2-Dichloroethane-d4 | 93.8           |           |             | 70.0-130    |          | 04/25/2019 18:49        | <a href="#">WG1271705</a> |

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

JC 5/9/19



Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 310000 |           | 2710 | 20000 | 1        | 04/30/2019 15:03 | <a href="#">WG1273429</a> |

Sample Narrative:

L1092400-02 WG1273429: Endpoint pH 4.5

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 14800  |           | 51.9 | 1000 | 1        | 04/26/2019 02:59 | <a href="#">WG1271706</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/26/2019 02:59 | <a href="#">WG1271706</a> |
| Sulfate  | 23300  |           | 77.4 | 5000 | 1        | 04/26/2019 02:59 | <a href="#">WG1271706</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier    | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|--------------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |              | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 4950   | <del>U</del> | 102  | 1000 | 1        | 04/29/2019 19:49 | <a href="#">WG1272243</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Iron      | 2870   |           | 75.0 | 500  | 5        | 04/29/2019 17:21 | <a href="#">WG1271843</a> |
| Manganese | 770    |           | 1.25 | 25.0 | 5        | 04/29/2019 17:21 | <a href="#">WG1271843</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | 88.0   | J U       | 31.6 | 100      | 1        | 04/26/2019 02:29 | <a href="#">WG1272107</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111    |           |      | 78.0-120 |          | 04/26/2019 02:29 | <a href="#">WG1272107</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 5090   |           | 0.287 | 0.678 | 1        | 05/02/2019 14:20 | <a href="#">WG1272501</a> |
| Ethane  | 4.00   |           | 0.296 | 1.29  | 1        | 05/02/2019 14:20 | <a href="#">WG1272501</a> |
| Ethene  | 347    |           | 0.422 | 1.27  | 1        | 05/02/2019 14:20 | <a href="#">WG1272501</a> |

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              | 1.58   | U         | J J0 J3 J4 | 1.05  | 25.0     | 1                | 04/25/2019 19:09          | <a href="#">WG1271705</a> |
| Acrylonitrile        | U      |           | 0.873      | 5.00  | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |                           |
| Benzene              | U      |           | 0.0896     | 0.500 | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |                           |
| Bromobenzene         | U      |           | 0.133      | 0.500 | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |                           |
| Bromodichloromethane | U      |           | 0.0800     | 0.500 | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |                           |
| Bromochloromethane   | U      |           | 0.145      | 0.500 | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |                           |
| Bromoform            | U      |           | 0.186      | 0.500 | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |                           |
| Bromomethane         | U      | UJ        | J0         | 0.157 | 2.50     | 1                | 04/25/2019 19:09          | <a href="#">WG1271705</a> |
| n-Butylbenzene       | U      |           | 0.143      | 0.500 | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |                           |
| sec-Butylbenzene     | U      |           | 0.134      | 0.500 | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |                           |
| tert-Butylbenzene    | U      |           | 0.183      | 0.500 | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |                           |
| Carbon disulfide     | U      |           | 0.101      | 0.500 | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |                           |
| Carbon tetrachloride | U      |           | 0.159      | 0.500 | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |                           |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/9/19



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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Chloroethane                   | 0.719          | J JJ0     | 0.141       | 2.50        | 1        | 04/25/2019 19:09        | WG1271705 |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 04/25/2019 19:09        | WG1271705 |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,1-Dichloroethene             | 1.04           |           | 0.188       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| cis-1,2-Dichloroethene         | 257            |           | 0.933       | 5.00        | 10       | 05/01/2019 03:04        | WG1274056 |
| trans-1,2-Dichloroethene       | 1.94           |           | 0.152       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 04/25/2019 19:09        | WG1271705 |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 04/25/2019 19:09        | WG1271705 |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 04/25/2019 19:09        | WG1271705 |
| 2-Hexanone                     | U              |           | 0.757       | 5.00        | 1        | 04/25/2019 19:09        | WG1271705 |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 04/25/2019 19:09        | WG1271705 |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 04/25/2019 19:09        | WG1271705 |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 04/25/2019 19:09        | WG1271705 |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/25/2019 19:09        | WG1271705 |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/25/2019 19:09        | WG1271705 |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/25/2019 19:09        | WG1271705 |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Tetrachloroethene              | 1.50           |           | 0.199       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Trichloroethene                | 12.4           |           | 0.153       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/25/2019 19:09        | WG1271705 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/9/19



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

| Analyte                   | Result | Qualifier | MDL   | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------|--------|-----------|-------|----------|----------|------------------|---------------------------|
|                           | ug/l   |           | ug/l  | ug/l     |          | date / time      |                           |
| Vinyl acetate             | U      |           | 0.645 | 5.00     | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |
| Vinyl chloride            | 383    |           | 1.18  | 5.00     | 10       | 05/01/2019 03:04 | <a href="#">WG1274056</a> |
| Xylenes, Total            | U      |           | 0.316 | 1.50     | 1        | 04/25/2019 19:09 | <a href="#">WG1271705</a> |
| (S) Toluene-d8            | 97.1   |           |       | 80.0-120 |          | 04/25/2019 19:09 | <a href="#">WG1271705</a> |
| (S) Toluene-d8            | 103    |           |       | 80.0-120 |          | 05/01/2019 03:04 | <a href="#">WG1274056</a> |
| (S) 4-Bromofluorobenzene  | 99.8   |           |       | 77.0-126 |          | 04/25/2019 19:09 | <a href="#">WG1271705</a> |
| (S) 4-Bromofluorobenzene  | 99.5   |           |       | 77.0-126 |          | 05/01/2019 03:04 | <a href="#">WG1274056</a> |
| (S) 1,2-Dichloroethane-d4 | 107    |           |       | 70.0-130 |          | 04/25/2019 19:09 | <a href="#">WG1271705</a> |
| (S) 1,2-Dichloroethane-d4 | 102    |           |       | 70.0-130 |          | 05/01/2019 03:04 | <a href="#">WG1274056</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/9/19



Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | U              |           | 31.6        | 100         | 1        | 04/26/2019 02:53        | <a href="#">WG1272107</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 111            |           |             | 78.0-120    |          | 04/26/2019 02:53        | <a href="#">WG1272107</a> |

- 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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch            |                           |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|------------------|---------------------------|
| Acetone                     | 2.68           | U         | J JO J3 J4  | 1.05        | 25.0     | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| Acrylonitrile               | U              |           |             | 0.873       | 5.00     | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| Benzene                     | U              |           |             | 0.0896      | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| Bromobenzene                | U              |           |             | 0.133       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| Bromodichloromethane        | U              |           |             | 0.0800      | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| Bromochloromethane          | U              |           |             | 0.145       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| Bromoform                   | U              |           |             | 0.186       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| Bromomethane                | U              | UJ        | JO          | 0.157       | 2.50     | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| n-Butylbenzene              | U              |           |             | 0.143       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| sec-Butylbenzene            | U              |           |             | 0.134       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| tert-Butylbenzene           | U              |           |             | 0.183       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| Carbon disulfide            | U              |           |             | 0.101       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| Carbon tetrachloride        | U              |           |             | 0.159       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| Chlorobenzene               | U              |           |             | 0.140       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| Chlorodibromomethane        | U              |           |             | 0.128       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| Chloroethane                | 0.369          | J         | J JO        | 0.141       | 2.50     | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| Chloroform                  | U              |           |             | 0.0860      | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| Chloromethane               | U              |           |             | 0.153       | 1.25     | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| 2-Chlorotoluene             | U              |           |             | 0.111       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| 4-Chlorotoluene             | U              |           |             | 0.0972      | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| 1,2-Dibromo-3-Chloropropane | U              |           |             | 0.325       | 2.50     | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| 1,2-Dibromoethane           | U              |           |             | 0.193       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| Dibromomethane              | U              |           |             | 0.117       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| 1,2-Dichlorobenzene         | U              |           |             | 0.101       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| 1,3-Dichlorobenzene         | U              |           |             | 0.130       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| 1,4-Dichlorobenzene         | U              |           |             | 0.121       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| Dichlorodifluoromethane     | U              |           |             | 0.127       | 2.50     | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| 1,1-Dichloroethane          | U              |           |             | 0.114       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| 1,2-Dichloroethane          | U              |           |             | 0.108       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| 1,1-Dichloroethene          | U              |           |             | 0.188       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| cis-1,2-Dichloroethene      | 1.76           |           |             | 0.0933      | 0.500    | 1                       | 05/01/2019 01:58 | <a href="#">WG1274056</a> |
| trans-1,2-Dichloroethene    | U              |           |             | 0.152       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| 1,2-Dichloropropane         | U              |           |             | 0.190       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| 1,1-Dichloropropene         | U              |           |             | 0.128       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| 1,3-Dichloropropane         | U              |           |             | 0.147       | 1.00     | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| cis-1,3-Dichloropropene     | U              |           |             | 0.0976      | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| trans-1,3-Dichloropropene   | U              |           |             | 0.222       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| trans-1,4-Dichloro-2-butene | U              |           |             | 0.257       | 5.00     | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| 2,2-Dichloropropane         | U              |           |             | 0.0929      | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| Di-isopropyl ether          | U              |           |             | 0.0924      | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| Ethylbenzene                | U              |           |             | 0.158       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| Hexachloro-1,3-butadiene    | U              |           |             | 0.157       | 1.00     | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| 2-Hexanone                  | U              |           |             | 0.757       | 5.00     | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| n-Hexane                    | U              |           |             | 0.305       | 5.00     | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| Iodomethane                 | U              |           |             | 0.377       | 10.0     | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| Isopropylbenzene            | U              |           |             | 0.126       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| p-Isopropyltoluene          | U              |           |             | 0.138       | 0.500    | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |
| 2-Butanone (MEK)            | U              |           |             | 1.28        | 5.00     | 1                       | 04/25/2019 19:29 | <a href="#">WG1271705</a> |

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Tetrachloroethene              | 1.02           |           | 0.199       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Trichloroethene                | 0.214          | J<br>UJ   | 0.153       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Trichlorofluoromethane         | U              | J<br>JO   | 0.130       | 2.50        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Vinyl acetate                  | U              |           | 0.645       | 5.00        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| Vinyl chloride                 | 0.797          |           | 0.118       | 0.500       | 1        | 05/01/2019 01:58        | <a href="#">WG1274056</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| (S) Toluene-d8                 | 94.9           |           |             | 80.0-120    |          | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| (S) Toluene-d8                 | 103            |           |             | 80.0-120    |          | 05/01/2019 01:58        | <a href="#">WG1274056</a> |
| (S) 4-Bromofluorobenzene       | 98.6           |           |             | 77.0-126    |          | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| (S) 4-Bromofluorobenzene       | 99.7           |           |             | 77.0-126    |          | 05/01/2019 01:58        | <a href="#">WG1274056</a> |
| (S) 1,2-Dichloroethane-d4      | 106            |           |             | 70.0-130    |          | 04/25/2019 19:29        | <a href="#">WG1271705</a> |
| (S) 1,2-Dichloroethane-d4      | 100            |           |             | 70.0-130    |          | 05/01/2019 01:58        | <a href="#">WG1274056</a> |

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

JC 5/9/19





Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 174000 |           | 2710 | 20000 | 1        | 04/30/2019 15:10 | <a href="#">WG1273429</a> |

Sample Narrative:

L1092400-04 WG1273429: Endpoint pH 4.5

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 9400   |           | 51.9 | 1000 | 1        | 04/26/2019 03:10 | <a href="#">WG1271706</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/26/2019 03:10 | <a href="#">WG1271706</a> |
| Sulfate  | 9230   |           | 77.4 | 5000 | 1        | 04/26/2019 03:10 | <a href="#">WG1271706</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier    | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|--------------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |              | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 3860   | <del>B</del> | 102  | 1000 | 1        | 04/29/2019 20:49 | <a href="#">WG1272243</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Iron      | 3600   | J         | 75.0 | 500  | 5        | 04/29/2019 17:27 | <a href="#">WG1271843</a> |
| Manganese | 385    |           | 1.25 | 25.0 | 5        | 04/29/2019 17:27 | <a href="#">WG1271843</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 04/26/2019 03:17 | <a href="#">WG1272107</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111    |           |      | 78.0-120 |          | 04/26/2019 03:17 | <a href="#">WG1272107</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 412    |           | 0.287 | 0.678 | 1        | 05/02/2019 15:36 | <a href="#">WG1272501</a> |
| Ethane  | U      |           | 0.296 | 1.29  | 1        | 05/02/2019 15:36 | <a href="#">WG1272501</a> |
| Ethene  | 1.79   |           | 0.422 | 1.27  | 1        | 05/02/2019 15:36 | <a href="#">WG1272501</a> |

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

| Analyte              | Result | Qualifier | MDL        | RDL   | Dilution | Analysis         | Batch                     |                           |
|----------------------|--------|-----------|------------|-------|----------|------------------|---------------------------|---------------------------|
|                      | ug/l   |           | ug/l       | ug/l  |          | date / time      |                           |                           |
| Acetone              | 3.82   | U         | J J0 J3 J4 | 1.05  | 25.0     | 1                | 04/25/2019 19:49          | <a href="#">WG1271705</a> |
| Acrylonitrile        | U      |           | 0.873      | 5.00  | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |                           |
| Benzene              | U      |           | 0.0896     | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |                           |
| Bromobenzene         | U      |           | 0.133      | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |                           |
| Bromodichloromethane | U      |           | 0.0800     | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |                           |
| Bromochloromethane   | U      |           | 0.145      | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |                           |
| Bromoform            | U      |           | 0.186      | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |                           |
| Bromomethane         | U      | UJ        | J0         | 0.157 | 2.50     | 1                | 04/25/2019 19:49          | <a href="#">WG1271705</a> |
| n-Butylbenzene       | U      |           | 0.143      | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |                           |
| sec-Butylbenzene     | U      |           | 0.134      | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |                           |
| tert-Butylbenzene    | U      |           | 0.183      | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |                           |
| Carbon disulfide     | 0.394  | J         | J          | 0.101 | 0.500    | 1                | 04/25/2019 19:49          | <a href="#">WG1271705</a> |
| Carbon tetrachloride | U      |           | 0.159      | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |                           |

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



Collected date/time: 04/24/19 12:55

L1092400

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

| Analyte                        | Result | Qualifier           | MDL    | RDL   | Dilution | Analysis         | Batch                     |
|--------------------------------|--------|---------------------|--------|-------|----------|------------------|---------------------------|
|                                | ug/l   |                     | ug/l   | ug/l  |          | date / time      |                           |
| Chlorobenzene                  | U      |                     | 0.140  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Chlorodibromomethane           | U      |                     | 0.128  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Chloroethane                   | U      | <b>UJ</b> <u>JO</u> | 0.141  | 2.50  | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Chloroform                     | U      |                     | 0.0860 | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Chloromethane                  | U      |                     | 0.153  | 1.25  | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 2-Chlorotoluene                | U      |                     | 0.111  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 4-Chlorotoluene                | U      |                     | 0.0972 | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 1,2-Dibromo-3-Chloropropane    | U      |                     | 0.325  | 2.50  | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 1,2-Dibromoethane              | U      |                     | 0.193  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Dibromomethane                 | U      |                     | 0.117  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 1,2-Dichlorobenzene            | U      |                     | 0.101  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 1,3-Dichlorobenzene            | U      |                     | 0.130  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 1,4-Dichlorobenzene            | U      |                     | 0.121  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Dichlorodifluoromethane        | U      |                     | 0.127  | 2.50  | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 1,1-Dichloroethane             | U      |                     | 0.114  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 1,2-Dichloroethane             | U      |                     | 0.108  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 1,1-Dichloroethene             | U      |                     | 0.188  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| cis-1,2-Dichloroethene         | 1.07   |                     | 0.0933 | 0.500 | 1        | 05/01/2019 02:20 | <a href="#">WG1274056</a> |
| trans-1,2-Dichloroethene       | U      |                     | 0.152  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 1,2-Dichloropropane            | U      |                     | 0.190  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 1,1-Dichloropropene            | U      |                     | 0.128  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 1,3-Dichloropropane            | U      |                     | 0.147  | 1.00  | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| cis-1,3-Dichloropropene        | U      |                     | 0.0976 | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| trans-1,3-Dichloropropene      | U      |                     | 0.222  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| trans-1,4-Dichloro-2-butene    | U      |                     | 0.257  | 5.00  | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 2,2-Dichloropropane            | U      |                     | 0.0929 | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Di-isopropyl ether             | U      |                     | 0.0924 | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Ethylbenzene                   | U      |                     | 0.158  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Hexachloro-1,3-butadiene       | U      |                     | 0.157  | 1.00  | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 2-Hexanone                     | U      |                     | 0.757  | 5.00  | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| n-Hexane                       | U      |                     | 0.305  | 5.00  | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Iodomethane                    | U      |                     | 0.377  | 10.0  | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Isopropylbenzene               | U      |                     | 0.126  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| p-Isopropyltoluene             | U      |                     | 0.138  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 2-Butanone (MEK)               | U      |                     | 1.28   | 5.00  | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Methylene Chloride             | U      |                     | 1.07   | 2.50  | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 4-Methyl-2-pentanone (MIBK)    | U      |                     | 0.823  | 5.00  | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Methyl tert-butyl ether        | U      |                     | 0.102  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Naphthalene                    | U      |                     | 0.174  | 2.50  | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| n-Propylbenzene                | U      |                     | 0.162  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Styrene                        | U      |                     | 0.117  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 1,1,1,2-Tetrachloroethane      | U      |                     | 0.120  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 1,1,2,2-Tetrachloroethane      | U      |                     | 0.130  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 1,1,2-Trichlorotrifluoroethane | U      |                     | 0.164  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Tetrachloroethene              | U      |                     | 0.199  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Toluene                        | U      |                     | 0.412  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 1,2,3-Trichlorobenzene         | U      |                     | 0.164  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 1,2,4-Trichlorobenzene         | U      |                     | 0.355  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 1,1,1-Trichloroethane          | U      |                     | 0.0940 | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 1,1,2-Trichloroethane          | U      |                     | 0.186  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Trichloroethene                | U      |                     | 0.153  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| Trichlorofluoromethane         | U      | <b>UJ</b> <u>JO</u> | 0.130  | 2.50  | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 1,2,3-Trichloropropane         | U      |                     | 0.247  | 2.50  | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 1,2,4-Trimethylbenzene         | U      |                     | 0.123  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 1,2,3-Trimethylbenzene         | U      |                     | 0.0739 | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |
| 1,3,5-Trimethylbenzene         | U      |                     | 0.124  | 0.500 | 1        | 04/25/2019 19:49 | <a href="#">WG1271705</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/9/19



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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 04/25/2019 19:49        | <a href="#">WG1271705</a> |
| Vinyl chloride            | 2.69           | J         | 0.118       | 0.500       | 1        | 05/01/2019 02:20        | <a href="#">WG1274056</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/25/2019 19:49        | <a href="#">WG1271705</a> |
| (S) Toluene-d8            | 103            |           |             | 80.0-120    |          | 04/25/2019 19:49        | <a href="#">WG1271705</a> |
| (S) Toluene-d8            | 103            |           |             | 80.0-120    |          | 05/01/2019 02:20        | <a href="#">WG1274056</a> |
| (S) 4-Bromofluorobenzene  | 103            |           |             | 77.0-126    |          | 04/25/2019 19:49        | <a href="#">WG1271705</a> |
| (S) 4-Bromofluorobenzene  | 97.4           |           |             | 77.0-126    |          | 05/01/2019 02:20        | <a href="#">WG1274056</a> |
| (S) 1,2-Dichloroethane-d4 | 97.4           |           |             | 70.0-130    |          | 04/25/2019 19:49        | <a href="#">WG1271705</a> |
| (S) 1,2-Dichloroethane-d4 | 103            |           |             | 70.0-130    |          | 05/01/2019 02:20        | <a href="#">WG1274056</a> |

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

JC 5/9/19



Collected date/time: 04/24/19 00:00

L1092400

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | U              |           | 31.6        | 100         | 1        | 04/26/2019 01:41        | <a href="#">WG1272107</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 111            |           |             | 78.0-120    |          | 04/26/2019 01:41        | <a href="#">WG1272107</a> |

1 Cp

2 Tc

3 Ss

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

| Analyte                     | Result<br>ug/l | Qualifier                              | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|--|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | 1.76           | <u>J</u> <u>J0</u> <u>J3</u> <u>J4</u> | 1.05        | 25.0        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Acrylonitrile               | U              |  | 0.873       | 5.00        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Benzene                     | U              |  | 0.0896      | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Bromobenzene                | U              |  | 0.133       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Bromodichloromethane        | U              |  | 0.0800      | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Bromochloromethane          | U              |  | 0.145       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Bromoform                   | U              |  | 0.186       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Bromomethane                | U              | <u>UJ</u> <u>J0</u>                    | 0.157       | 2.50        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| n-Butylbenzene              | U              |  | 0.143       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| sec-Butylbenzene            | U              |  | 0.134       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| tert-Butylbenzene           | U              |  | 0.183       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Carbon disulfide            | U              |  | 0.101       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Carbon tetrachloride        | U              |  | 0.159       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Chlorobenzene               | U              |  | 0.140       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Chlorodibromomethane        | U              |  | 0.128       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Chloroethane                | U              | <u>UJ</u> <u>J0</u>                    | 0.141       | 2.50        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Chloroform                  | U              |  | 0.0860      | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Chloromethane               | U              |  | 0.153       | 1.25        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 2-Chlorotoluene             | U              |  | 0.111       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 4-Chlorotoluene             | U              |  | 0.0972      | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,2-Dibromo-3-Chloropropane | U              |  | 0.325       | 2.50        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,2-Dibromoethane           | U              |  | 0.193       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Dibromomethane              | U              |  | 0.117       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,2-Dichlorobenzene         | U              |  | 0.101       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,3-Dichlorobenzene         | U              |  | 0.130       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,4-Dichlorobenzene         | U              |  | 0.121       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Dichlorodifluoromethane     | U              |  | 0.127       | 2.50        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,1-Dichloroethane          | U              |  | 0.114       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,2-Dichloroethane          | U              |  | 0.108       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,1-Dichloroethene          | U              |  | 0.188       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| cis-1,2-Dichloroethene      | U              |  | 0.0933      | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| trans-1,2-Dichloroethene    | U              |  | 0.152       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,2-Dichloropropane         | U              |  | 0.190       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,1-Dichloropropene         | U              |  | 0.128       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 1,3-Dichloropropane         | U              |  | 0.147       | 1.00        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| cis-1,3-Dichloropropene     | U              |  | 0.0976      | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| trans-1,3-Dichloropropene   | U              |  | 0.222       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| trans-1,4-Dichloro-2-butene | U              |  | 0.257       | 5.00        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 2,2-Dichloropropane         | U              |  | 0.0929      | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Di-isopropyl ether          | U              |  | 0.0924      | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Ethylbenzene                | U              |  | 0.158       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Hexachloro-1,3-butadiene    | U              |  | 0.157       | 1.00        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 2-Hexanone                  | U              |  | 0.757       | 5.00        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| n-Hexane                    | U              |  | 0.305       | 5.00        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Iodomethane                 | U              |  | 0.377       | 10.0        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| Isopropylbenzene            | U              |  | 0.126       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| p-Isopropyltoluene          | U              |  | 0.138       | 0.500       | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |
| 2-Butanone (MEK)            | U              |  | 1.28        | 5.00        | 1        | 04/25/2019 16:28        | <a href="#">WG1271705</a> |

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/9/19



Collected date/time: 04/24/19 00:00

L1092400

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

| Analyte                        | Result | Qualifier | MDL    | RDL      | Dilution | Analysis         | Batch                     |
|--------------------------------|--------|-----------|--------|----------|----------|------------------|---------------------------|
|                                | ug/l   |           | ug/l   | ug/l     |          | date / time      |                           |
| Methylene Chloride             | U      |           | 1.07   | 2.50     | 1        | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| 4-Methyl-2-pentanone (MIBK)    | U      |           | 0.823  | 5.00     | 1        | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| Methyl tert-butyl ether        | U      |           | 0.102  | 0.500    | 1        | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| Naphthalene                    | U      |           | 0.174  | 2.50     | 1        | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| n-Propylbenzene                | U      |           | 0.162  | 0.500    | 1        | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| Styrene                        | U      |           | 0.117  | 0.500    | 1        | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| 1,1,1,2-Tetrachloroethane      | U      |           | 0.120  | 0.500    | 1        | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| 1,1,2,2-Tetrachloroethane      | U      |           | 0.130  | 0.500    | 1        | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| 1,1,2-Trichlorotrifluoroethane | U      |           | 0.164  | 0.500    | 1        | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| Tetrachloroethene              | U      |           | 0.199  | 0.500    | 1        | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| Toluene                        | U      |           | 0.412  | 0.500    | 1        | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| 1,2,3-Trichlorobenzene         | U      |           | 0.164  | 0.500    | 1        | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| 1,2,4-Trichlorobenzene         | U      |           | 0.355  | 0.500    | 1        | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| 1,1,1-Trichloroethane          | U      |           | 0.0940 | 0.500    | 1        | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| 1,1,2-Trichloroethane          | U      |           | 0.186  | 0.500    | 1        | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| Trichloroethene                | U      |           | 0.153  | 0.500    | 1        | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| Trichlorofluoromethane         | U      | UJ JO     | 0.130  | 2.50     | 1        | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| 1,2,3-Trichloropropane         | U      |           | 0.247  | 2.50     | 1        | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| 1,2,4-Trimethylbenzene         | U      |           | 0.123  | 0.500    | 1        | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| 1,2,3-Trimethylbenzene         | U      |           | 0.0739 | 0.500    | 1        | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| 1,3,5-Trimethylbenzene         | U      |           | 0.124  | 0.500    | 1        | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| Vinyl acetate                  | U      |           | 0.645  | 5.00     | 1        | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| Vinyl chloride                 | U      | UJ JO     | 0.118  | 0.500    | 1        | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| Xylenes, Total                 | U      |           | 0.316  | 1.50     | 1        | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| (S) Toluene-d8                 | 101    |           |        | 80.0-120 |          | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| (S) 4-Bromofluorobenzene       | 105    |           |        | 77.0-126 |          | 04/25/2019 16:28 | <a href="#">WG1271705</a> |
| (S) 1,2-Dichloroethane-d4      | 92.8   |           |        | 70.0-130 |          | 04/25/2019 16:28 | <a href="#">WG1271705</a> |

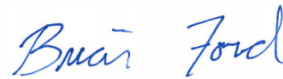
- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 5/9/19

## PES Environmental, Inc.- WA

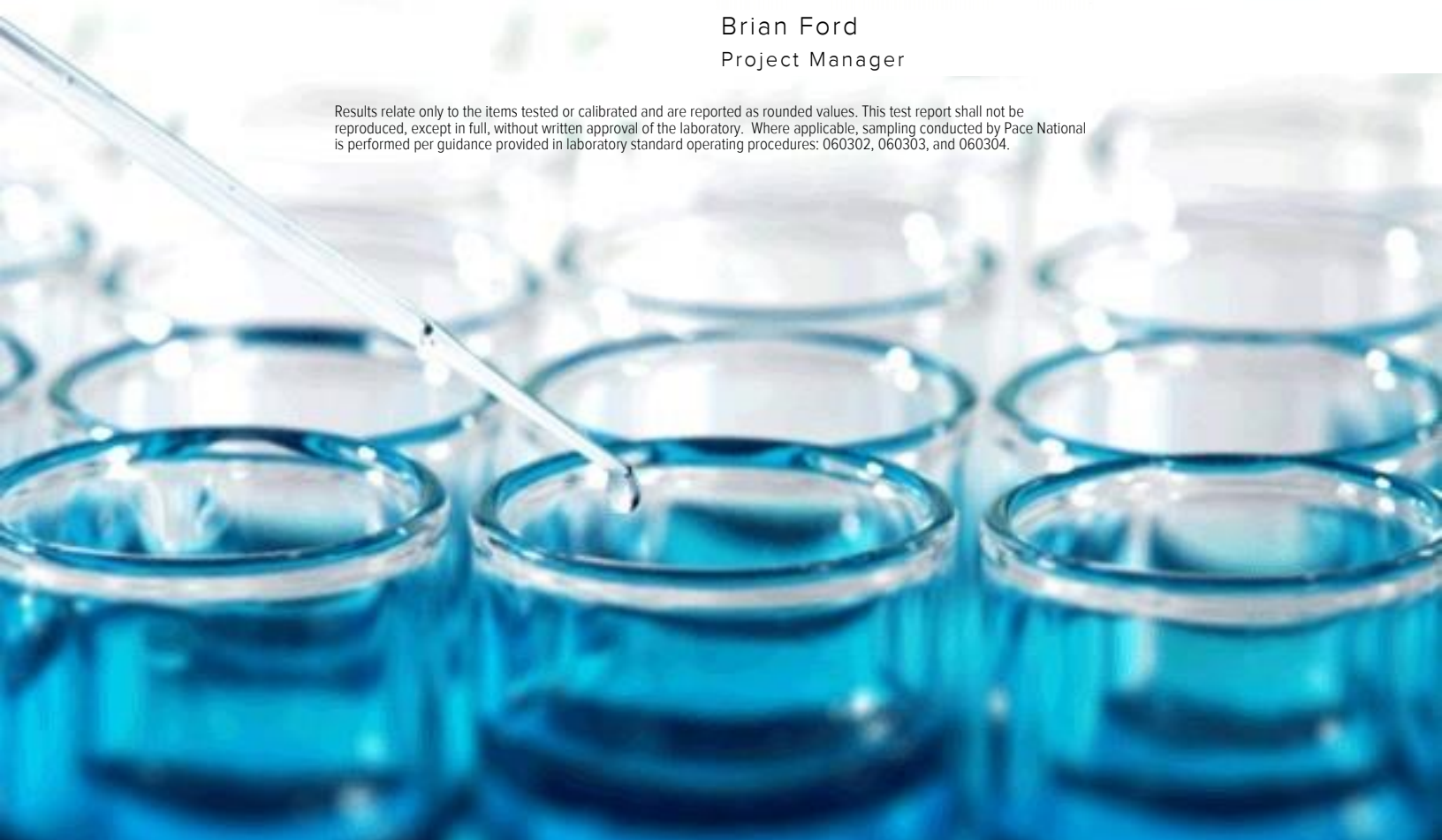
Sample Delivery Group: L1092440  
Samples Received: 04/25/2019  
Project Number: 1413.001.05.601  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

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.





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# SAMPLE SUMMARY

## MW-125-042319 L1092440-01 GW

Collected by  
Ben Hecht  
Collected date/time  
04/23/19 17:00  
Received date/time  
04/25/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1272107 | 1        | 04/26/19 04:05        | 04/26/19 04:05     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1272563 | 1        | 04/26/19 18:07        | 04/26/19 18:07     | BMB     | Mt. Juliet, TN |

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

## MW-143-042419 L1092440-02 GW

Collected by  
Ben Hecht  
Collected date/time  
04/24/19 09:10  
Received date/time  
04/25/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011                | WG1273787 | 1        | 05/02/19 02:46        | 05/02/19 02:46     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1271815 | 1        | 04/25/19 17:52        | 04/25/19 17:52     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                      | WG1272254 | 1        | 04/26/19 14:22        | 04/26/19 14:22     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1271844 | 1        | 04/30/19 09:36        | 05/07/19 21:51     | LD      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1272107 | 1        | 04/26/19 04:29        | 04/26/19 04:29     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1274563 | 1        | 05/02/19 10:54        | 05/02/19 10:54     | DAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1275114 | 20       | 05/02/19 17:40        | 05/02/19 17:40     | DAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1272563 | 1        | 04/26/19 18:27        | 04/26/19 18:27     | BMB     | Mt. Juliet, TN |

## MW-908-042419 L1092440-03 GW

Collected by  
Ben Hecht  
Collected date/time  
04/24/19 07:00  
Received date/time  
04/25/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011                | WG1273787 | 1        | 05/02/19 02:54        | 05/02/19 02:54     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1271815 | 1        | 04/25/19 18:10        | 04/25/19 18:10     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1271815 | 5        | 04/26/19 01:16        | 04/26/19 01:16     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                      | WG1272254 | 1        | 04/26/19 15:44        | 04/26/19 15:44     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1271844 | 1        | 04/30/19 09:36        | 05/07/19 21:56     | LD      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1272107 | 1        | 04/26/19 04:53        | 04/26/19 04:53     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1274563 | 1        | 05/02/19 10:59        | 05/02/19 10:59     | DAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1272563 | 1        | 04/26/19 18:47        | 04/26/19 18:47     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1274830 | 50       | 05/02/19 10:41        | 05/02/19 10:41     | ADM     | Mt. Juliet, TN |

## MW-142-042419 L1092440-04 GW

Collected by  
Ben Hecht  
Collected date/time  
04/24/19 10:35  
Received date/time  
04/25/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011                | WG1273787 | 1        | 05/02/19 03:00        | 05/02/19 03:00     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1271815 | 1        | 04/25/19 18:28        | 04/25/19 18:28     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                      | WG1272254 | 1        | 04/26/19 16:00        | 04/26/19 16:00     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1271844 | 1        | 04/30/19 09:36        | 05/07/19 22:01     | LD      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1272107 | 1        | 04/26/19 05:17        | 04/26/19 05:17     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1274563 | 1        | 05/02/19 11:08        | 05/02/19 11:08     | DAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1272563 | 1        | 04/26/19 19:07        | 04/26/19 19:07     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1274830 | 1        | 05/02/19 10:21        | 05/02/19 10:21     | ADM     | Mt. Juliet, TN |

## MW-156-042419 L1092440-05 GW

Collected by  
Ben Hecht  
Collected date/time  
04/24/19 12:30  
Received date/time  
04/25/19 08:45

| Method                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011 | WG1273787 | 1        | 05/02/19 03:08        | 05/02/19 03:08     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A       | WG1271815 | 1        | 04/25/19 19:21        | 04/25/19 19:21     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A       | WG1271815 | 5        | 04/26/19 01:34        | 04/26/19 01:34     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A       | WG1272254 | 1        | 04/26/19 16:20        | 04/26/19 16:20     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B      | WG1271844 | 1        | 04/30/19 09:36        | 05/07/19 22:05     | LD      | Mt. Juliet, TN |



# SAMPLE SUMMARY



## MW-156-042419 L1092440-05 GW

Collected by: Ben Hecht  
 Collected date/time: 04/24/19 12:30  
 Received date/time: 04/25/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1272107 | 1        | 04/26/19 05:41        | 04/26/19 05:41     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1274563 | 1        | 05/02/19 11:12        | 05/02/19 11:12     | DAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1272563 | 1        | 04/26/19 19:27        | 04/26/19 19:27     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1274830 | 50       | 05/02/19 11:00        | 05/02/19 11:00     | ADM     | Mt. Juliet, TN |

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## MW-157-042419 L1092440-06 GW

Collected by: Ben Hecht  
 Collected date/time: 04/24/19 14:10  
 Received date/time: 04/25/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011                | WG1273787 | 1        | 05/02/19 03:22        | 05/02/19 03:22     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1271815 | 1        | 04/25/19 19:39        | 04/25/19 19:39     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                      | WG1272254 | 1        | 04/26/19 16:35        | 04/26/19 16:35     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1271844 | 1        | 04/30/19 09:36        | 05/07/19 22:58     | LD      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1272107 | 1        | 04/26/19 06:05        | 04/26/19 06:05     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1274563 | 1        | 05/02/19 11:25        | 05/02/19 11:25     | DAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1272563 | 1        | 04/26/19 19:47        | 04/26/19 19:47     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1274830 | 50       | 05/02/19 11:20        | 05/02/19 11:20     | ADM     | Mt. Juliet, TN |

## TRIP BLANK-042419 L1092440-07 GW

Collected by: Ben Hecht  
 Collected date/time: 04/24/19 00:00  
 Received date/time: 04/25/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1275218 | 1        | 05/02/19 15:18        | 05/02/19 15:18     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1272563 | 1        | 04/26/19 17:27        | 04/26/19 17:27     | BMB     | 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

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



Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | U              |           | 31.6        | 100         | 1        | 04/26/2019 04:05        | <a href="#">WG1272107</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 111            |           |             | 78.0-120    |          | 04/26/2019 04:05        | <a href="#">WG1272107</a> |

- 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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | 6.93           | J JO      | 1.05        | 25.0        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Acrylonitrile               | U              |           | 0.873       | 5.00        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Benzene                     | U              |           | 0.0896      | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Bromobenzene                | U              |           | 0.133       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Bromodichloromethane        | U              |           | 0.0800      | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Bromochloromethane          | U              |           | 0.145       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Bromoform                   | U              |           | 0.186       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Bromomethane                | U              | JO        | 0.157       | 2.50        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| n-Butylbenzene              | U              |           | 0.143       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| sec-Butylbenzene            | U              |           | 0.134       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| tert-Butylbenzene           | U              |           | 0.183       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Carbon disulfide            | U              |           | 0.101       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Carbon tetrachloride        | U              |           | 0.159       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Chlorobenzene               | U              |           | 0.140       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Chlorodibromomethane        | U              |           | 0.128       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Chloroethane                | U              | JO        | 0.141       | 2.50        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Chloroform                  | U              |           | 0.0860      | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Chloromethane               | U              |           | 0.153       | 1.25        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 2-Chlorotoluene             | U              |           | 0.111       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 4-Chlorotoluene             | U              |           | 0.0972      | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,2-Dibromo-3-Chloropropane | U              |           | 0.325       | 2.50        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,2-Dibromoethane           | U              |           | 0.193       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Dibromomethane              | U              |           | 0.117       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,2-Dichlorobenzene         | U              |           | 0.101       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,3-Dichlorobenzene         | U              |           | 0.130       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,4-Dichlorobenzene         | U              |           | 0.121       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Dichlorodifluoromethane     | U              |           | 0.127       | 2.50        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,1-Dichloroethane          | U              |           | 0.114       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,2-Dichloroethane          | U              |           | 0.108       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,1-Dichloroethene          | U              |           | 0.188       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| cis-1,2-Dichloroethene      | U              |           | 0.0933      | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| trans-1,2-Dichloroethene    | U              |           | 0.152       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,2-Dichloropropane         | U              |           | 0.190       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,1-Dichloropropene         | U              |           | 0.128       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,3-Dichloropropane         | U              |           | 0.147       | 1.00        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| cis-1,3-Dichloropropene     | U              |           | 0.0976      | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| trans-1,3-Dichloropropene   | U              |           | 0.222       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| trans-1,4-Dichloro-2-butene | U              |           | 0.257       | 5.00        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 2,2-Dichloropropane         | U              |           | 0.0929      | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Di-isopropyl ether          | U              |           | 0.0924      | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Ethylbenzene                | U              |           | 0.158       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Hexachloro-1,3-butadiene    | U              |           | 0.157       | 1.00        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 2-Hexanone                  | U              | J3        | 0.757       | 5.00        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| n-Hexane                    | U              |           | 0.305       | 5.00        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Iodomethane                 | U              |           | 0.377       | 10.0        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Isopropylbenzene            | U              |           | 0.126       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| p-Isopropyltoluene          | U              |           | 0.138       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 2-Butanone (MEK)            | U              |           | 1.28        | 5.00        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |



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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Vinyl acetate                  | U              |           | 0.645       | 5.00        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Vinyl chloride                 | U              | <u>JO</u> | 0.118       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| (S) Toluene-d8                 | 96.5           |           |             | 80.0-120    |          | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| (S) 4-Bromofluorobenzene       | 106            |           |             | 77.0-126    |          | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| (S) 1,2-Dichloroethane-d4      | 92.7           |           |             | 70.0-130    |          | 04/26/2019 18:07        | <a href="#">WG1272563</a> |

- 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 | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 393000 |           | 2710 | 20000 | 1        | 05/02/2019 02:46 | <a href="#">WG1273787</a> |

Sample Narrative:

L1092440-02 WG1273787: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 56200  |           | 51.9 | 1000 | 1        | 04/25/2019 17:52 | <a href="#">WG1271815</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/25/2019 17:52 | <a href="#">WG1271815</a> |
| Sulfate  | 8530   |           | 77.4 | 5000 | 1        | 04/25/2019 17:52 | <a href="#">WG1271815</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 7190   |           | 102  | 1000 | 1        | 04/26/2019 14:22 | <a href="#">WG1272254</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 687    | <u>B</u>  | 15.0  | 100  | 1        | 05/07/2019 21:51 | <a href="#">WG1271844</a> |
| Manganese | 317    |           | 0.250 | 5.00 | 1        | 05/07/2019 21:51 | <a href="#">WG1271844</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                                 | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---|--------|-----------|------|----------|----------|------------------|---------------------------|
|   | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH           | U      |           | 31.6 | 100      | 1        | 04/26/2019 04:29 | <a href="#">WG1272107</a> |
| (S) <i>a,a,a</i> -Trifluorotoluene(FID) | 111    |           |      | 78.0-120 |          | 04/26/2019 04:29 | <a href="#">WG1272107</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Methane | 6940   |           | 5.74  | 13.6 | 20       | 05/02/2019 17:40 | <a href="#">WG1275114</a> |
| Ethane  | 125    |           | 0.296 | 1.29 | 1        | 05/02/2019 10:54 | <a href="#">WG1274563</a> |
| Ethene  | U      |           | 0.422 | 1.27 | 1        | 05/02/2019 10:54 | <a href="#">WG1274563</a> |

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

| Analyte              | Result | Qualifier   | MDL    | RDL   | Dilution | Analysis         | Batch                     |
|----------------------|--------|-------------|--------|-------|----------|------------------|---------------------------|
|                      | ug/l   |             | ug/l   | ug/l  |          | date / time      |                           |
| Acetone              | 2.44   | <u>J JO</u> | 1.05   | 25.0  | 1        | 04/26/2019 18:27 | <a href="#">WG1272563</a> |
| Acrylonitrile        | U      |             | 0.873  | 5.00  | 1        | 04/26/2019 18:27 | <a href="#">WG1272563</a> |
| Benzene              | U      |             | 0.0896 | 0.500 | 1        | 04/26/2019 18:27 | <a href="#">WG1272563</a> |
| Bromobenzene         | U      |             | 0.133  | 0.500 | 1        | 04/26/2019 18:27 | <a href="#">WG1272563</a> |
| Bromodichloromethane | U      |             | 0.0800 | 0.500 | 1        | 04/26/2019 18:27 | <a href="#">WG1272563</a> |
| Bromochloromethane   | U      |             | 0.145  | 0.500 | 1        | 04/26/2019 18:27 | <a href="#">WG1272563</a> |
| Bromoform            | U      |             | 0.186  | 0.500 | 1        | 04/26/2019 18:27 | <a href="#">WG1272563</a> |
| Bromomethane         | U      | <u>JO</u>   | 0.157  | 2.50  | 1        | 04/26/2019 18:27 | <a href="#">WG1272563</a> |
| n-Butylbenzene       | U      |             | 0.143  | 0.500 | 1        | 04/26/2019 18:27 | <a href="#">WG1272563</a> |
| sec-Butylbenzene     | U      |             | 0.134  | 0.500 | 1        | 04/26/2019 18:27 | <a href="#">WG1272563</a> |
| tert-Butylbenzene    | U      |             | 0.183  | 0.500 | 1        | 04/26/2019 18:27 | <a href="#">WG1272563</a> |
| Carbon disulfide     | 0.308  | <u>J JO</u> | 0.101  | 0.500 | 1        | 04/26/2019 18:27 | <a href="#">WG1272563</a> |
| Carbon tetrachloride | U      |             | 0.159  | 0.500 | 1        | 04/26/2019 18:27 | <a href="#">WG1272563</a> |

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      |           |
| Chlorobenzene                  | U      |           | 0.140  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Chlorodibromomethane           | U      |           | 0.128  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Chloroethane                   | U      | J0        | 0.141  | 2.50  | 1        | 04/26/2019 18:27 | WG1272563 |
| Chloroform                     | U      |           | 0.0860 | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Chloromethane                  | U      |           | 0.153  | 1.25  | 1        | 04/26/2019 18:27 | WG1272563 |
| 2-Chlorotoluene                | U      |           | 0.111  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 4-Chlorotoluene                | U      |           | 0.0972 | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,2-Dibromo-3-Chloropropane    | U      |           | 0.325  | 2.50  | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,2-Dibromoethane              | U      |           | 0.193  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Dibromomethane                 | U      |           | 0.117  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,2-Dichlorobenzene            | U      |           | 0.101  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,3-Dichlorobenzene            | U      |           | 0.130  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,4-Dichlorobenzene            | U      |           | 0.121  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Dichlorodifluoromethane        | U      |           | 0.127  | 2.50  | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,1-Dichloroethane             | U      |           | 0.114  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,2-Dichloroethane             | U      |           | 0.108  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,1-Dichloroethene             | U      |           | 0.188  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| cis-1,2-Dichloroethene         | U      |           | 0.0933 | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| trans-1,2-Dichloroethene       | U      |           | 0.152  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,2-Dichloropropane            | U      |           | 0.190  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,1-Dichloropropene            | U      |           | 0.128  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,3-Dichloropropane            | U      |           | 0.147  | 1.00  | 1        | 04/26/2019 18:27 | WG1272563 |
| cis-1,3-Dichloropropene        | U      |           | 0.0976 | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| trans-1,3-Dichloropropene      | U      |           | 0.222  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| trans-1,4-Dichloro-2-butene    | U      |           | 0.257  | 5.00  | 1        | 04/26/2019 18:27 | WG1272563 |
| 2,2-Dichloropropane            | U      |           | 0.0929 | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Di-isopropyl ether             | U      |           | 0.0924 | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Ethylbenzene                   | U      |           | 0.158  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Hexachloro-1,3-butadiene       | U      |           | 0.157  | 1.00  | 1        | 04/26/2019 18:27 | WG1272563 |
| 2-Hexanone                     | U      | J3        | 0.757  | 5.00  | 1        | 04/26/2019 18:27 | WG1272563 |
| n-Hexane                       | U      |           | 0.305  | 5.00  | 1        | 04/26/2019 18:27 | WG1272563 |
| Iodomethane                    | U      |           | 0.377  | 10.0  | 1        | 04/26/2019 18:27 | WG1272563 |
| Isopropylbenzene               | U      |           | 0.126  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| p-Isopropyltoluene             | U      |           | 0.138  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 2-Butanone (MEK)               | U      |           | 1.28   | 5.00  | 1        | 04/26/2019 18:27 | WG1272563 |
| Methylene Chloride             | U      |           | 1.07   | 2.50  | 1        | 04/26/2019 18:27 | WG1272563 |
| 4-Methyl-2-pentanone (MIBK)    | U      |           | 0.823  | 5.00  | 1        | 04/26/2019 18:27 | WG1272563 |
| Methyl tert-butyl ether        | U      |           | 0.102  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Naphthalene                    | U      |           | 0.174  | 2.50  | 1        | 04/26/2019 18:27 | WG1272563 |
| n-Propylbenzene                | U      |           | 0.162  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Styrene                        | U      |           | 0.117  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,1,1,2-Tetrachloroethane      | U      |           | 0.120  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,1,2,2-Tetrachloroethane      | U      |           | 0.130  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,1,2-Trichlorotrifluoroethane | U      |           | 0.164  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Tetrachloroethene              | U      |           | 0.199  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Toluene                        | U      |           | 0.412  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,2,3-Trichlorobenzene         | U      |           | 0.164  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,2,4-Trichlorobenzene         | U      |           | 0.355  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,1,1-Trichloroethane          | U      |           | 0.0940 | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,1,2-Trichloroethane          | U      |           | 0.186  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Trichloroethene                | U      |           | 0.153  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Trichlorofluoromethane         | U      | J0        | 0.130  | 2.50  | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,2,3-Trichloropropane         | U      |           | 0.247  | 2.50  | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,2,4-Trimethylbenzene         | U      |           | 0.123  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,2,3-Trimethylbenzene         | U      |           | 0.0739 | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,3,5-Trimethylbenzene         | U      |           | 0.124  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 04/26/2019 18:27        | <a href="#">WG1272563</a> |
| Vinyl chloride            | U              | <u>JO</u> | 0.118       | 0.500       | 1        | 04/26/2019 18:27        | <a href="#">WG1272563</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/26/2019 18:27        | <a href="#">WG1272563</a> |
| (S) Toluene-d8            | 101            |           |             | 80.0-120    |          | 04/26/2019 18:27        | <a href="#">WG1272563</a> |
| (S) 4-Bromofluorobenzene  | 107            |           |             | 77.0-126    |          | 04/26/2019 18:27        | <a href="#">WG1272563</a> |
| (S) 1,2-Dichloroethane-d4 | 92.2           |           |             | 70.0-130    |          | 04/26/2019 18:27        | <a href="#">WG1272563</a> |

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 | Qualifier | MDL  | RDL   | Dilution | Analysis date / time | Batch                     |
|------------|--------|-----------|------|-------|----------|----------------------|---------------------------|
| Alkalinity | 612000 |           | 2710 | 20000 | 1        | 05/02/2019 02:54     | <a href="#">WG1273787</a> |

Sample Narrative:

L1092440-03 WG1273787: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL   | Dilution | Analysis date / time | Batch                     |
|----------|--------|-----------|------|-------|----------|----------------------|---------------------------|
| Chloride | 19300  |           | 51.9 | 1000  | 1        | 04/25/2019 18:10     | <a href="#">WG1271815</a> |
| Nitrate  | 259    |           | 22.7 | 100   | 1        | 04/25/2019 18:10     | <a href="#">WG1271815</a> |
| Sulfate  | 145000 |           | 387  | 25000 | 5        | 04/26/2019 01:16     | <a href="#">WG1271815</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL | RDL  | Dilution | Analysis date / time | Batch                     |
|----------------------------|--------|-----------|-----|------|----------|----------------------|---------------------------|
| TOC (Total Organic Carbon) | 56000  |           | 102 | 1000 | 1        | 04/26/2019 15:44     | <a href="#">WG1272254</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis date / time | Batch                     |
|-----------|--------|-----------|-------|------|----------|----------------------|---------------------------|
| Iron      | 4760   |           | 15.0  | 100  | 1        | 05/07/2019 21:56     | <a href="#">WG1271844</a> |
| Manganese | 9750   |           | 0.250 | 5.00 | 1        | 05/07/2019 21:56     | <a href="#">WG1271844</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|----------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 2600   |           | 31.6 | 100      | 1        | 04/26/2019 04:53     | <a href="#">WG1272107</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 112    |           |      | 78.0-120 |          | 04/26/2019 04:53     | <a href="#">WG1272107</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis date / time | Batch                     |
|---------|--------|-----------|-------|-------|----------|----------------------|---------------------------|
| Methane | 1590   |           | 0.287 | 0.678 | 1        | 05/02/2019 10:59     | <a href="#">WG1274563</a> |
| Ethane  | 28.4   |           | 0.296 | 1.29  | 1        | 05/02/2019 10:59     | <a href="#">WG1274563</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 05/02/2019 10:59     | <a href="#">WG1274563</a> |

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

| Analyte              | Result | Qualifier | MDL    | RDL   | Dilution | Analysis date / time | Batch                     |
|----------------------|--------|-----------|--------|-------|----------|----------------------|---------------------------|
| Acetone              | 2.50   | J JO      | 1.05   | 25.0  | 1        | 04/26/2019 18:47     | <a href="#">WG1272563</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 04/26/2019 18:47     | <a href="#">WG1272563</a> |
| Benzene              | 0.330  | J         | 0.0896 | 0.500 | 1        | 04/26/2019 18:47     | <a href="#">WG1272563</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 04/26/2019 18:47     | <a href="#">WG1272563</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 04/26/2019 18:47     | <a href="#">WG1272563</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 04/26/2019 18:47     | <a href="#">WG1272563</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 04/26/2019 18:47     | <a href="#">WG1272563</a> |
| Bromomethane         | U      | JO        | 0.157  | 2.50  | 1        | 04/26/2019 18:47     | <a href="#">WG1272563</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 04/26/2019 18:47     | <a href="#">WG1272563</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 04/26/2019 18:47     | <a href="#">WG1272563</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 04/26/2019 18:47     | <a href="#">WG1272563</a> |
| Carbon disulfide     | U      |           | 0.101  | 0.500 | 1        | 04/26/2019 18:47     | <a href="#">WG1272563</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 04/26/2019 18:47     | <a href="#">WG1272563</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| Chloroethane                   | U              | <u>JO</u> | 0.141       | 2.50        | 1        | 04/26/2019 18:47        | WG1272563 |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 04/26/2019 18:47        | WG1272563 |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,1-Dichloroethene             | 11.8           |           | 0.188       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| cis-1,2-Dichloroethene         | 1760           |           | 4.66        | 25.0        | 50       | 05/02/2019 10:41        | WG1274830 |
| trans-1,2-Dichloroethene       | 9.31           |           | 0.152       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 04/26/2019 18:47        | WG1272563 |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 04/26/2019 18:47        | WG1272563 |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 04/26/2019 18:47        | WG1272563 |
| 2-Hexanone                     | U              | <u>J3</u> | 0.757       | 5.00        | 1        | 04/26/2019 18:47        | WG1272563 |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 04/26/2019 18:47        | WG1272563 |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 04/26/2019 18:47        | WG1272563 |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 04/26/2019 18:47        | WG1272563 |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/26/2019 18:47        | WG1272563 |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/26/2019 18:47        | WG1272563 |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/26/2019 18:47        | WG1272563 |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| Tetrachloroethene              | 1440           |           | 9.95        | 25.0        | 50       | 05/02/2019 10:41        | WG1274830 |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| Trichloroethene                | 717            |           | 7.65        | 25.0        | 50       | 05/02/2019 10:41        | WG1274830 |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 04/26/2019 18:47        | <a href="#">WG1272563</a> |
| Vinyl chloride            | 3.34           | <u>JO</u> | 0.118       | 0.500       | 1        | 04/26/2019 18:47        | <a href="#">WG1272563</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/26/2019 18:47        | <a href="#">WG1272563</a> |
| (S) Toluene-d8            | 100            |           |             | 80.0-120    |          | 04/26/2019 18:47        | <a href="#">WG1272563</a> |
| (S) Toluene-d8            | 108            |           |             | 80.0-120    |          | 05/02/2019 10:41        | <a href="#">WG1274830</a> |
| (S) 4-Bromofluorobenzene  | 107            |           |             | 77.0-126    |          | 04/26/2019 18:47        | <a href="#">WG1272563</a> |
| (S) 4-Bromofluorobenzene  | 100            |           |             | 77.0-126    |          | 05/02/2019 10:41        | <a href="#">WG1274830</a> |
| (S) 1,2-Dichloroethane-d4 | 90.2           |           |             | 70.0-130    |          | 04/26/2019 18:47        | <a href="#">WG1272563</a> |
| (S) 1,2-Dichloroethane-d4 | 90.2           |           |             | 70.0-130    |          | 05/02/2019 10:41        | <a href="#">WG1274830</a> |

- 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 | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 798000 |           | 2710 | 20000 | 1        | 05/02/2019 03:00 | <a href="#">WG1273787</a> |

Sample Narrative:

L1092440-04 WG1273787: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 9760   |           | 51.9 | 1000 | 1        | 04/25/2019 18:28 | <a href="#">WG1271815</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/25/2019 18:28 | <a href="#">WG1271815</a> |
| Sulfate  | 27300  |           | 77.4 | 5000 | 1        | 04/25/2019 18:28 | <a href="#">WG1271815</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 31700  |           | 102  | 1000 | 1        | 04/26/2019 16:00 | <a href="#">WG1272254</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 3500   |           | 15.0  | 100  | 1        | 05/07/2019 22:01 | <a href="#">WG1271844</a> |
| Manganese | 1990   |           | 0.250 | 5.00 | 1        | 05/07/2019 22:01 | <a href="#">WG1271844</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                                 | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---|--------|-----------|------|----------|----------|------------------|---------------------------|
|   | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH           | U      |           | 31.6 | 100      | 1        | 04/26/2019 05:17 | <a href="#">WG1272107</a> |
| (S) <i>a,a,a</i> -Trifluorotoluene(FID) | 111    |           |      | 78.0-120 |          | 04/26/2019 05:17 | <a href="#">WG1272107</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 3560   |           | 0.287 | 0.678 | 1        | 05/02/2019 11:08 | <a href="#">WG1274563</a> |
| Ethane  | 19.2   |           | 0.296 | 1.29  | 1        | 05/02/2019 11:08 | <a href="#">WG1274563</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 05/02/2019 11:08 | <a href="#">WG1274563</a> |

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

| Analyte              | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch                     |
|----------------------|--------|-----------|--------|-------|----------|------------------|---------------------------|
|                      | ug/l   |           | ug/l   | ug/l  |          | date / time      |                           |
| Acetone              | 2.52   | J JO      | 1.05   | 25.0  | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a> |
| Benzene              | 0.361  | J         | 0.0896 | 0.500 | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a> |
| Bromomethane         | U      | JO        | 0.157  | 2.50  | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a> |
| Carbon disulfide     | U      |           | 0.101  | 0.500 | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| Chloroethane                   | U              | J0        | 0.141       | 2.50        | 1        | 04/26/2019 19:07        | WG1272563 |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 04/26/2019 19:07        | WG1272563 |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 04/26/2019 19:07        | WG1272563 |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 04/26/2019 19:07        | WG1272563 |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| 1,1-Dichloroethene             | U              |           | 0.188       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| cis-1,2-Dichloroethene         | 5.67           |           | 0.0933      | 0.500       | 1        | 05/02/2019 10:21        | WG1274830 |
| trans-1,2-Dichloroethene       | U              |           | 0.152       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 04/26/2019 19:07        | WG1272563 |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 04/26/2019 19:07        | WG1272563 |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 04/26/2019 19:07        | WG1272563 |
| 2-Hexanone                     | U              | J3        | 0.757       | 5.00        | 1        | 04/26/2019 19:07        | WG1272563 |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 04/26/2019 19:07        | WG1272563 |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 04/26/2019 19:07        | WG1272563 |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 04/26/2019 19:07        | WG1272563 |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/26/2019 19:07        | WG1272563 |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/26/2019 19:07        | WG1272563 |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/26/2019 19:07        | WG1272563 |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 05/02/2019 10:21        | WG1274830 |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| Trichloroethene                | 0.156          | J         | 0.153       | 0.500       | 1        | 05/02/2019 10:21        | WG1274830 |
| Trichlorofluoromethane         | U              | J0        | 0.130       | 2.50        | 1        | 04/26/2019 19:07        | WG1272563 |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/26/2019 19:07        | WG1272563 |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/26/2019 19:07        | WG1272563 |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 04/26/2019 19:07        | <a href="#">WG1272563</a> |
| Vinyl chloride            | 4.39           | <u>JO</u> | 0.118       | 0.500       | 1        | 04/26/2019 19:07        | <a href="#">WG1272563</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/26/2019 19:07        | <a href="#">WG1272563</a> |
| (S) Toluene-d8            | 100            |           |             | 80.0-120    |          | 04/26/2019 19:07        | <a href="#">WG1272563</a> |
| (S) Toluene-d8            | 107            |           |             | 80.0-120    |          | 05/02/2019 10:21        | <a href="#">WG1274830</a> |
| (S) 4-Bromofluorobenzene  | 107            |           |             | 77.0-126    |          | 04/26/2019 19:07        | <a href="#">WG1272563</a> |
| (S) 4-Bromofluorobenzene  | 97.3           |           |             | 77.0-126    |          | 05/02/2019 10:21        | <a href="#">WG1274830</a> |
| (S) 1,2-Dichloroethane-d4 | 92.9           |           |             | 70.0-130    |          | 04/26/2019 19:07        | <a href="#">WG1272563</a> |
| (S) 1,2-Dichloroethane-d4 | 89.2           |           |             | 70.0-130    |          | 05/02/2019 10:21        | <a href="#">WG1274830</a> |

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 | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 618000 |           | 2710 | 20000 | 1        | 05/02/2019 03:08 | <a href="#">WG1273787</a> |

Sample Narrative:

L1092440-05 WG1273787: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|-------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Chloride | 18600  |           | 51.9 | 1000  | 1        | 04/25/2019 19:21 | <a href="#">WG1271815</a> |
| Nitrate  | U      |           | 22.7 | 100   | 1        | 04/25/2019 19:21 | <a href="#">WG1271815</a> |
| Sulfate  | 145000 |           | 387  | 25000 | 5        | 04/26/2019 01:34 | <a href="#">WG1271815</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 57300  |           | 102  | 1000 | 1        | 04/26/2019 16:20 | <a href="#">WG1272254</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 3810   |           | 15.0  | 100  | 1        | 05/07/2019 22:05 | <a href="#">WG1271844</a> |
| Manganese | 9010   |           | 0.250 | 5.00 | 1        | 05/07/2019 22:05 | <a href="#">WG1271844</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | 2570   |           | 31.6 | 100      | 1        | 04/26/2019 05:41 | <a href="#">WG1272107</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 112    |           |      | 78.0-120 |          | 04/26/2019 05:41 | <a href="#">WG1272107</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 1720   |           | 0.287 | 0.678 | 1        | 05/02/2019 11:12 | <a href="#">WG1274563</a> |
| Ethane  | 31.2   |           | 0.296 | 1.29  | 1        | 05/02/2019 11:12 | <a href="#">WG1274563</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 05/02/2019 11:12 | <a href="#">WG1274563</a> |

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

| Analyte              | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch                     |
|----------------------|--------|-----------|--------|-------|----------|------------------|---------------------------|
|                      | ug/l   |           | ug/l   | ug/l  |          | date / time      |                           |
| Acetone              | 2.00   | J JO      | 1.05   | 25.0  | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |
| Benzene              | 0.339  | J         | 0.0896 | 0.500 | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |
| Bromomethane         | U      | JO        | 0.157  | 2.50  | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |
| Carbon disulfide     | U      |           | 0.101  | 0.500 | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| Chloroethane                   | U              | <u>JO</u> | 0.141       | 2.50        | 1        | 04/26/2019 19:27        | WG1272563 |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 04/26/2019 19:27        | WG1272563 |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,1-Dichloroethene             | 12.3           |           | 0.188       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| cis-1,2-Dichloroethene         | 1770           |           | 4.66        | 25.0        | 50       | 05/02/2019 11:00        | WG1274830 |
| trans-1,2-Dichloroethene       | 9.41           |           | 0.152       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 04/26/2019 19:27        | WG1272563 |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 04/26/2019 19:27        | WG1272563 |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 04/26/2019 19:27        | WG1272563 |
| 2-Hexanone                     | U              | <u>J3</u> | 0.757       | 5.00        | 1        | 04/26/2019 19:27        | WG1272563 |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 04/26/2019 19:27        | WG1272563 |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 04/26/2019 19:27        | WG1272563 |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 04/26/2019 19:27        | WG1272563 |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/26/2019 19:27        | WG1272563 |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/26/2019 19:27        | WG1272563 |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/26/2019 19:27        | WG1272563 |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| Tetrachloroethene              | 1430           |           | 9.95        | 25.0        | 50       | 05/02/2019 11:00        | WG1274830 |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| Trichloroethene                | 727            |           | 7.65        | 25.0        | 50       | 05/02/2019 11:00        | WG1274830 |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 04/26/2019 19:27        | <a href="#">WG1272563</a> |
| Vinyl chloride            | 3.21           | <u>JO</u> | 0.118       | 0.500       | 1        | 04/26/2019 19:27        | <a href="#">WG1272563</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/26/2019 19:27        | <a href="#">WG1272563</a> |
| (S) Toluene-d8            | 96.4           |           |             | 80.0-120    |          | 04/26/2019 19:27        | <a href="#">WG1272563</a> |
| (S) Toluene-d8            | 106            |           |             | 80.0-120    |          | 05/02/2019 11:00        | <a href="#">WG1274830</a> |
| (S) 4-Bromofluorobenzene  | 99.4           |           |             | 77.0-126    |          | 04/26/2019 19:27        | <a href="#">WG1272563</a> |
| (S) 4-Bromofluorobenzene  | 99.5           |           |             | 77.0-126    |          | 05/02/2019 11:00        | <a href="#">WG1274830</a> |
| (S) 1,2-Dichloroethane-d4 | 105            |           |             | 70.0-130    |          | 04/26/2019 19:27        | <a href="#">WG1272563</a> |
| (S) 1,2-Dichloroethane-d4 | 91.1           |           |             | 70.0-130    |          | 05/02/2019 11:00        | <a href="#">WG1274830</a> |

1 Cp

2 Tc

3 Ss

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9 Sc





Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 513000 |           | 2710 | 20000 | 1        | 05/02/2019 03:22 | <a href="#">WG1273787</a> |

Sample Narrative:

L1092440-06 WG1273787: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 34100  |           | 51.9 | 1000 | 1        | 04/25/2019 19:39 | <a href="#">WG1271815</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/25/2019 19:39 | <a href="#">WG1271815</a> |
| Sulfate  | 95000  |           | 77.4 | 5000 | 1        | 04/25/2019 19:39 | <a href="#">WG1271815</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 39500  |           | 102  | 1000 | 1        | 04/26/2019 16:35 | <a href="#">WG1272254</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 9400   |           | 15.0  | 100  | 1        | 05/07/2019 22:58 | <a href="#">WG1271844</a> |
| Manganese | 2130   |           | 0.250 | 5.00 | 1        | 05/07/2019 22:58 | <a href="#">WG1271844</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | 3210   |           | 31.6 | 100      | 1        | 04/26/2019 06:05 | <a href="#">WG1272107</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 112    |           |      | 78.0-120 |          | 04/26/2019 06:05 | <a href="#">WG1272107</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 5510   |           | 0.287 | 0.678 | 1        | 05/02/2019 11:25 | <a href="#">WG1274563</a> |
| Ethane  | 36.0   |           | 0.296 | 1.29  | 1        | 05/02/2019 11:25 | <a href="#">WG1274563</a> |
| Ethene  | 119    |           | 0.422 | 1.27  | 1        | 05/02/2019 11:25 | <a href="#">WG1274563</a> |

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

| Analyte              | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch                     |
|----------------------|--------|-----------|--------|-------|----------|------------------|---------------------------|
|                      | ug/l   |           | ug/l   | ug/l  |          | date / time      |                           |
| Acetone              | 3.28   | J JO      | 1.05   | 25.0  | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a> |
| Benzene              | 0.254  | J         | 0.0896 | 0.500 | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a> |
| Bromomethane         | U      | JO        | 0.157  | 2.50  | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a> |
| Carbon disulfide     | 0.137  | J         | 0.101  | 0.500 | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/24/19 14:10

L1092440

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| Chloroethane                   | 0.752          | JJO       | 0.141       | 2.50        | 1        | 04/26/2019 19:47        | WG1272563 |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 04/26/2019 19:47        | WG1272563 |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,1-Dichloroethene             | 11.7           |           | 0.188       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| cis-1,2-Dichloroethene         | 3550           |           | 4.66        | 25.0        | 50       | 05/02/2019 11:20        | WG1274830 |
| trans-1,2-Dichloroethene       | 15.9           |           | 0.152       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 04/26/2019 19:47        | WG1272563 |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 04/26/2019 19:47        | WG1272563 |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 04/26/2019 19:47        | WG1272563 |
| 2-Hexanone                     | U              | J3        | 0.757       | 5.00        | 1        | 04/26/2019 19:47        | WG1272563 |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 04/26/2019 19:47        | WG1272563 |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 04/26/2019 19:47        | WG1272563 |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 04/26/2019 19:47        | WG1272563 |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/26/2019 19:47        | WG1272563 |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/26/2019 19:47        | WG1272563 |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/26/2019 19:47        | WG1272563 |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| Tetrachloroethene              | U              |           | 9.95        | 25.0        | 50       | 05/02/2019 11:20        | WG1274830 |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| Trichloroethene                | 8.52           | J         | 7.65        | 25.0        | 50       | 05/02/2019 11:20        | WG1274830 |
| Trichlorofluoromethane         | U              | JO        | 0.130       | 2.50        | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |

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      |                           |
| Vinyl acetate                    | U      |           | 0.645 | 5.00     | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a> |
| Vinyl chloride                   | 622    |           | 5.90  | 25.0     | 50       | 05/02/2019 11:20 | <a href="#">WG1274830</a> |
| Xylenes, Total                   | U      |           | 0.316 | 1.50     | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a> |
| <i>(S) Toluene-d8</i>            | 101    |           |       | 80.0-120 |          | 04/26/2019 19:47 | <a href="#">WG1272563</a> |
| <i>(S) Toluene-d8</i>            | 106    |           |       | 80.0-120 |          | 05/02/2019 11:20 | <a href="#">WG1274830</a> |
| <i>(S) 4-Bromofluorobenzene</i>  | 106    |           |       | 77.0-126 |          | 04/26/2019 19:47 | <a href="#">WG1272563</a> |
| <i>(S) 4-Bromofluorobenzene</i>  | 100    |           |       | 77.0-126 |          | 05/02/2019 11:20 | <a href="#">WG1274830</a> |
| <i>(S) 1,2-Dichloroethane-d4</i> | 92.8   |           |       | 70.0-130 |          | 04/26/2019 19:47 | <a href="#">WG1272563</a> |
| <i>(S) 1,2-Dichloroethane-d4</i> | 91.4   |           |       | 70.0-130 |          | 05/02/2019 11:20 | <a href="#">WG1274830</a> |

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

Sample Narrative:

L1092440-06 WG1272563, WG1274830: Not all compounds reportable at lower dilution.

L1092440-06 WG1272563, WG1274830: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.



Collected date/time: 04/24/19 00:00

L1092440

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | U              |           | 31.6        | 100         | 1        | 05/02/2019 15:18        | <a href="#">WG1275218</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 98.4           |           |             | 78.0-120    |          | 05/02/2019 15:18        | <a href="#">WG1275218</a> |

1 Cp

2 Tc

3 Ss

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

| Analyte                     | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | 1.58           | J JO      | 1.05        | 25.0        | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Acrylonitrile               | U              |           | 0.873       | 5.00        | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Benzene                     | U              |           | 0.0896      | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Bromobenzene                | U              |           | 0.133       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Bromodichloromethane        | U              |           | 0.0800      | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Bromochloromethane          | U              |           | 0.145       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Bromoform                   | U              |           | 0.186       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Bromomethane                | U              | JO        | 0.157       | 2.50        | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| n-Butylbenzene              | U              |           | 0.143       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| sec-Butylbenzene            | U              |           | 0.134       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| tert-Butylbenzene           | U              |           | 0.183       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Carbon disulfide            | U              |           | 0.101       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Carbon tetrachloride        | U              |           | 0.159       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Chlorobenzene               | U              |           | 0.140       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Chlorodibromomethane        | U              |           | 0.128       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Chloroethane                | U              | JO        | 0.141       | 2.50        | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Chloroform                  | U              |           | 0.0860      | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Chloromethane               | U              |           | 0.153       | 1.25        | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 2-Chlorotoluene             | U              |           | 0.111       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 4-Chlorotoluene             | U              |           | 0.0972      | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 1,2-Dibromo-3-Chloropropane | U              |           | 0.325       | 2.50        | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 1,2-Dibromoethane           | U              |           | 0.193       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Dibromomethane              | U              |           | 0.117       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 1,2-Dichlorobenzene         | U              |           | 0.101       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 1,3-Dichlorobenzene         | U              |           | 0.130       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 1,4-Dichlorobenzene         | U              |           | 0.121       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Dichlorodifluoromethane     | U              |           | 0.127       | 2.50        | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 1,1-Dichloroethane          | U              |           | 0.114       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 1,2-Dichloroethane          | U              |           | 0.108       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 1,1-Dichloroethene          | U              |           | 0.188       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| cis-1,2-Dichloroethene      | U              |           | 0.0933      | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| trans-1,2-Dichloroethene    | U              |           | 0.152       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 1,2-Dichloropropane         | U              |           | 0.190       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 1,1-Dichloropropene         | U              |           | 0.128       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 1,3-Dichloropropane         | U              |           | 0.147       | 1.00        | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| cis-1,3-Dichloropropene     | U              |           | 0.0976      | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| trans-1,3-Dichloropropene   | U              |           | 0.222       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| trans-1,4-Dichloro-2-butene | U              |           | 0.257       | 5.00        | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 2,2-Dichloropropane         | U              |           | 0.0929      | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Di-isopropyl ether          | U              |           | 0.0924      | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Ethylbenzene                | U              |           | 0.158       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Hexachloro-1,3-butadiene    | U              |           | 0.157       | 1.00        | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 2-Hexanone                  | U              | J3        | 0.757       | 5.00        | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| n-Hexane                    | U              |           | 0.305       | 5.00        | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Iodomethane                 | U              |           | 0.377       | 10.0        | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Isopropylbenzene            | U              |           | 0.126       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| p-Isopropyltoluene          | U              |           | 0.138       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 2-Butanone (MEK)            | U              |           | 1.28        | 5.00        | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/24/19 00:00

L1092440

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Vinyl acetate                  | U              |           | 0.645       | 5.00        | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Vinyl chloride                 | U              | <u>JO</u> | 0.118       | 0.500       | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| (S) Toluene-d8                 | 97.1           |           |             | 80.0-120    |          | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| (S) 4-Bromofluorobenzene       | 101            |           |             | 77.0-126    |          | 04/26/2019 17:27        | <a href="#">WG1272563</a> |
| (S) 1,2-Dichloroethane-d4      | 90.1           |           |             | 70.0-130    |          | 04/26/2019 17:27        | <a href="#">WG1272563</a> |

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



Method Blank (MB)

(MB) R3407366-1 05/02/19 00:50

| Analyte    | MB Result | MB Qualifier | MB MDL | MB RDL |
|------------|-----------|--------------|--------|--------|
| Alkalinity | 3430      | J            | 2710   | 20000  |

Sample Narrative:

BLANK: Endpoint pH 4.5

L1092404-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1092404-05 05/02/19 00:56 • (DUP) R3407366-2 05/02/19 01:03

| Analyte    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------|-----------------|------------|----------|---------|---------------|----------------|
| Alkalinity | 237000          | 191000     | 1        | 21.6    | J3            | 20             |

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

L1092472-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1092472-01 05/02/19 03:29 • (DUP) R3407366-4 05/02/19 03:35

| Analyte    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------|-----------------|------------|----------|---------|---------------|----------------|
| Alkalinity | 756000          | 761000     | 1        | 0.671   |               | 20             |

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3407366-3 05/02/19 01:58

| Analyte    | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|------------|--------------|------------|----------|-------------|---------------|
| Alkalinity | 100000       | 103000     | 103      | 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) R3405528-1 04/25/19 11:04

| 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   |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1092431-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1092431-02 04/25/19 15:47 • (DUP) R3405528-3 04/25/19 16:04

| Analyte  | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
|          | ug/l            | ug/l       |          | %       |               | %              |
| Chloride | 20400           | 20500      | 1        | 0.120   |               | 15             |
| Nitrate  | ND              | 0.000      | 1        | 0.000   |               | 15             |
| Sulfate  | 7450            | 7480       | 1        | 0.344   |               | 15             |

L1092440-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1092440-06 04/25/19 19:39 • (DUP) R3405528-6 04/25/19 19:57

| Analyte  | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
|          | ug/l            | ug/l       |          | %       |               | %              |
| Chloride | 34100           | 34000      | 1        | 0.427   |               | 15             |
| Nitrate  | U               | 0.000      | 1        | 0.000   |               | 15             |
| Sulfate  | 95000           | 95200      | 1        | 0.256   |               | 15             |

Laboratory Control Sample (LCS)

(LCS) R3405528-2 04/25/19 11:22

| Analyte  | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------|--------------|------------|----------|-------------|---------------|
|          | ug/l         | ug/l       | %        | %           |               |
| Chloride | 40000        | 40200      | 100      | 80.0-120    |               |
| Nitrate  | 8000         | 8320       | 104      | 80.0-120    |               |
| Sulfate  | 40000        | 40400      | 101      | 80.0-120    |               |



L1092431-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1092431-02 04/25/19 15:47 • (MS) R3405528-4 04/25/19 16:22 • (MSD) R3405528-5 04/25/19 16:40

| Analyte  | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MSD Result<br>ug/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Chloride | 50000                | 20400                   | 68800             | 69100              | 96.7         | 97.3          | 1        | 80.0-120         |              |               | 0.496    | 15              |
| Nitrate  | 5000                 | ND                      | 4770              | 4810               | 95.4         | 96.2          | 1        | 80.0-120         |              |               | 0.787    | 15              |
| Sulfate  | 50000                | 7450                    | 56100             | 56200              | 97.3         | 97.5          | 1        | 80.0-120         |              |               | 0.214    | 15              |

L1092440-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1092440-06 04/25/19 19:39 • (MS) R3405528-7 04/25/19 20:15

| Analyte  | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MS Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier |
|----------|----------------------|-------------------------|-------------------|--------------|----------|------------------|--------------|
| Chloride | 50000                | 34100                   | 79500             | 90.7         | 1        | 80.0-120         |              |
| Nitrate  | 5000                 | U                       | 4770              | 95.4         | 1        | 80.0-120         |              |
| Sulfate  | 50000                | 95000                   | 140000            | 90.5         | 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) R3406229-1 04/26/19 11:55

| Analyte                    | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------------------|-----------|--------------|--------|--------|
| TOC (Total Organic Carbon) | 290       | ↓            | 102    | 1000   |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1092440-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1092440-06 04/26/19 16:35 • (DUP) R3406229-5 04/26/19 16:50

| Analyte                    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------------------------|-----------------|------------|----------|---------|---------------|----------------|
| TOC (Total Organic Carbon) | 39500           | 38600      | 1        | 2.46    |               | 20             |

L1092716-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1092716-10 04/26/19 20:39 • (DUP) R3406229-8 04/26/19 20:54

| Analyte                    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------------------------|-----------------|------------|----------|---------|---------------|----------------|
| TOC (Total Organic Carbon) | 99500           | 101000     | 2        | 1.84    |               | 20             |

Laboratory Control Sample (LCS)

(LCS) R3406229-2 04/26/19 12:31

| Analyte                    | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------------------------|--------------|------------|----------|-------------|---------------|
| TOC (Total Organic Carbon) | 75000        | 75900      | 101      | 85.0-115    |               |

L1092431-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1092431-15 04/26/19 13:36 • (MS) R3406229-3 04/26/19 13:53 • (MSD) R3406229-4 04/26/19 14:09

| Analyte                    | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD   | RPD Limits |
|----------------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| TOC (Total Organic Carbon) | 50000        | 10200           | 57900     | 57500      | 95.3    | 94.6     | 1        | 80.0-120    |              |               | 0.641 | 20         |

L1092716-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1092716-03 04/26/19 17:29 • (MS) R3406229-6 04/26/19 17:46 • (MSD) R3406229-7 04/26/19 19:03

| Analyte                    | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD   | RPD Limits |
|----------------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| TOC (Total Organic Carbon) | 50000        | ND              | 48800     | 48400      | 96.1    | 95.4     | 1        | 80.0-120    |              |               | 0.720 | 20         |



Method Blank (MB)

(MB) R3409057-1 05/07/19 20:17

| Analyte   | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|-----------|-------------------|--------------|----------------|----------------|
| Iron      | 87.3              | ↓            | 15.0           | 100            |
| Manganese | 1.84              | ↓            | 0.250          | 5.00           |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

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

(LCS) R3409057-2 05/07/19 20:22 • (LCSD) R3409057-3 05/07/19 20:26

| Analyte   | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-----------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Iron      | 500                  | 449                | 441                 | 89.8          | 88.1           | 80.0-120         |               |                | 1.93     | 20              |
| Manganese | 50.0                 | 45.5               | 44.5                | 91.0          | 89.1           | 80.0-120         |               |                | 2.10     | 20              |

L1092880-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1092880-01 05/07/19 20:31 • (MS) R3409057-5 05/07/19 20:40 • (MSD) R3409057-6 05/07/19 20:45

| Analyte   | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MSD Result<br>ug/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-----------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Iron      | 500                  | 12400                   | 13900             | 13700              | 286          | 251           | 1        | 75.0-125         | ↓            | ↓             | 1.26     | 20              |
| Manganese | 50.0                 | 393                     | 440               | 449                | 93.4         | 111           | 1        | 75.0-125         |              |               | 2.01     | 20              |



Method Blank (MB)

(MB) R3406246-2 04/25/19 22:30

| Analyte                            | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| Gasoline Range Organics-NWTPH      | U                 |              | 31.6           | 100            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 111               |              |                | 78.0-120       |

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3406246-1 04/25/19 21:42

| Analyte                            | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|----------------------|--------------------|---------------|------------------|---------------|
| Gasoline Range Organics-NWTPH      | 5500                 | 6260               | 114           | 70.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                    | 94.6          | 78.0-120         |               |

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3407657-3 05/02/19 14:16

| Analyte                            | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| Gasoline Range Organics-NWTPH      | U                 |              | 31.6           | 100            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 98.4              |              |                | 78.0-120       |

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

(LCS) R3407657-1 05/02/19 13:04 • (LCSD) R3407657-2 05/02/19 13:28

| Analyte                            | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Gasoline Range Organics-NWTPH      | 5500                 | 5280               | 5110                | 95.9          | 92.9           | 70.0-124         |               |                | 3.26     | 20              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                    |                     | 104           | 104            | 78.0-120         |               |                |          |                 |

L1094387-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1094387-05 05/02/19 18:28 • (MS) R3407657-4 05/02/19 23:14 • (MSD) R3407657-5 05/02/19 23:38

| Analyte                            | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MSD Result<br>ug/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Gasoline Range Organics-NWTPH      | 5500                 | U                       | 5760              | 5590               | 105          | 102           | 1        | 10.0-155         |              |               | 2.92     | 21              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                         |                   |                    | 107          | 107           |          | 78.0-120         |              |               |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3407462-1 05/02/19 08:41

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------|-----------|--------------|--------|--------|
|         | ug/l      |              | ug/l   | 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

L1092426-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1092426-09 05/02/19 09:09 • (DUP) R3407462-2 05/02/19 10:16

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
|         | 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             |

L1092440-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1092440-05 05/02/19 11:12 • (DUP) R3407462-3 05/02/19 11:36

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
|         | ug/l            | ug/l       |          | %       |               | %              |
| Methane | 1720            | 1710       | 1        | 0.589   |               | 20             |
| Ethane  | 31.2            | 30.6       | 1        | 1.98    |               | 20             |
| Ethene  | U               | 0.000      | 1        | 0.000   |               | 20             |

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

(LCS) R3407462-4 05/02/19 11:40 • (LCSD) R3407462-5 05/02/19 11:52

| 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        | %        | %         | %           |               |                | %     | %          |
| Methane | 67.8         | 77.2       | 77.1        | 114      | 114       | 85.0-115    |               |                | 0.205 | 20         |
| Ethane  | 129          | 117        | 120         | 90.8     | 92.9      | 85.0-115    |               |                | 2.32  | 20         |
| Ethene  | 127          | 115        | 121         | 90.8     | 95.2      | 85.0-115    |               |                | 4.68  | 20         |



Method Blank (MB)

(MB) R3407693-1 05/02/19 16:49

| Analyte | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|---------|-------------------|--------------|----------------|----------------|
| Methane | U                 |              | 0.287          | 0.678          |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

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

(LCS) R3407693-3 05/02/19 18:03 • (LCSD) R3407693-4 05/02/19 18:08

| Analyte | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Methane | 67.8                 | 77.6               | 73.5                | 114           | 108            | 85.0-115         |               |                | 5.43     | 20              |

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3407258-3 04/26/19 16:26

| Analyte                     | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>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-1,2-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           |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3407258-3 04/26/19 16:26

| Analyte                        | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>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              | 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                 | 97.5              |              |                | 80.0-120       |
| (S) 4-Bromofluorobenzene       | 104               |              |                | 77.0-126       |
| (S) 1,2-Dichloroethane-d4      | 91.0              |              |                | 70.0-130       |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





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

(LCS) R3407258-1 04/26/19 15:27 • (LCSD) R3407258-2 04/26/19 15:46

| Analyte                     | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD<br>% | RPD Limits<br>% |
|-----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Bromochloromethane          | 25.0                 | 23.5               | 22.9                | 94.0          | 91.7           | 76.0-122         |                      |                       | 2.40     | 20              |
| Acetone                     | 125                  | 165                | 141                 | 132           | 113            | 19.0-160         |                      |                       | 15.5     | 27              |
| Acrylonitrile               | 125                  | 132                | 149                 | 106           | 119            | 55.0-149         |                      |                       | 11.9     | 20              |
| Benzene                     | 25.0                 | 25.8               | 25.0                | 103           | 100            | 70.0-123         |                      |                       | 3.16     | 20              |
| Bromobenzene                | 25.0                 | 22.9               | 22.3                | 91.5          | 89.2           | 73.0-121         |                      |                       | 2.57     | 20              |
| Bromodichloromethane        | 25.0                 | 22.0               | 21.4                | 88.2          | 85.5           | 75.0-120         |                      |                       | 3.06     | 20              |
| Bromoform                   | 25.0                 | 26.4               | 26.3                | 106           | 105            | 68.0-132         |                      |                       | 0.471    | 20              |
| Bromomethane                | 25.0                 | 18.6               | 18.0                | 74.5          | 72.2           | 10.0-160         |                      |                       | 3.16     | 25              |
| trans-1,4-Dichloro-2-butene | 25.0                 | 21.8               | 22.1                | 87.0          | 88.4           | 33.0-144         |                      |                       | 1.54     | 20              |
| n-Butylbenzene              | 25.0                 | 22.3               | 21.4                | 89.2          | 85.8           | 73.0-125         |                      |                       | 3.98     | 20              |
| sec-Butylbenzene            | 25.0                 | 23.0               | 22.3                | 92.0          | 89.2           | 75.0-125         |                      |                       | 3.08     | 20              |
| tert-Butylbenzene           | 25.0                 | 24.1               | 23.0                | 96.4          | 92.0           | 76.0-124         |                      |                       | 4.65     | 20              |
| Carbon disulfide            | 25.0                 | 32.0               | 26.4                | 128           | 106            | 61.0-128         |                      |                       | 19.2     | 20              |
| 2-Hexanone                  | 125                  | 140                | 173                 | 112           | 138            | 67.0-149         |                      | J3                    | 21.1     | 20              |
| Carbon tetrachloride        | 25.0                 | 24.4               | 24.1                | 97.6          | 96.4           | 68.0-126         |                      |                       | 1.19     | 20              |
| Chlorobenzene               | 25.0                 | 23.9               | 23.3                | 95.5          | 93.1           | 80.0-121         |                      |                       | 2.56     | 20              |
| n-Hexane                    | 25.0                 | 29.3               | 28.0                | 117           | 112            | 57.0-133         |                      |                       | 4.46     | 20              |
| Chlorodibromomethane        | 25.0                 | 23.5               | 23.3                | 94.1          | 93.2           | 77.0-125         |                      |                       | 1.02     | 20              |
| Iodomethane                 | 125                  | 133                | 128                 | 106           | 103            | 33.0-147         |                      |                       | 3.26     | 26              |
| Chloroethane                | 25.0                 | 17.3               | 16.9                | 69.2          | 67.5           | 47.0-150         |                      |                       | 2.56     | 20              |
| Chloroform                  | 25.0                 | 21.7               | 21.0                | 86.9          | 84.0           | 73.0-120         |                      |                       | 3.34     | 20              |
| Chloromethane               | 25.0                 | 26.6               | 25.7                | 106           | 103            | 41.0-142         |                      |                       | 3.39     | 20              |
| 2-Chlorotoluene             | 25.0                 | 22.7               | 22.0                | 90.8          | 88.1           | 76.0-123         |                      |                       | 3.09     | 20              |
| 4-Chlorotoluene             | 25.0                 | 23.0               | 22.3                | 91.9          | 89.0           | 75.0-122         |                      |                       | 3.22     | 20              |
| 1,2-Dibromo-3-Chloropropane | 25.0                 | 26.2               | 26.7                | 105           | 107            | 58.0-134         |                      |                       | 1.93     | 20              |
| 1,2-Dibromoethane           | 25.0                 | 23.3               | 23.7                | 93.3          | 94.7           | 80.0-122         |                      |                       | 1.49     | 20              |
| Dibromomethane              | 25.0                 | 22.2               | 21.7                | 88.7          | 86.8           | 80.0-120         |                      |                       | 2.12     | 20              |
| 1,2-Dichlorobenzene         | 25.0                 | 23.3               | 22.8                | 93.3          | 91.2           | 79.0-121         |                      |                       | 2.30     | 20              |
| 1,3-Dichlorobenzene         | 25.0                 | 23.1               | 22.5                | 92.4          | 90.2           | 79.0-120         |                      |                       | 2.42     | 20              |
| 1,4-Dichlorobenzene         | 25.0                 | 22.1               | 21.7                | 88.4          | 86.9           | 79.0-120         |                      |                       | 1.77     | 20              |
| Dichlorodifluoromethane     | 25.0                 | 31.5               | 29.2                | 126           | 117            | 51.0-149         |                      |                       | 7.67     | 20              |
| 1,1-Dichloroethane          | 25.0                 | 24.1               | 23.3                | 96.5          | 93.3           | 70.0-126         |                      |                       | 3.42     | 20              |
| 1,2-Dichloroethane          | 25.0                 | 20.2               | 19.8                | 81.0          | 79.2           | 70.0-128         |                      |                       | 2.20     | 20              |
| 1,1-Dichloroethene          | 25.0                 | 26.8               | 23.7                | 107           | 94.7           | 71.0-124         |                      |                       | 12.5     | 20              |
| cis-1,2-Dichloroethene      | 25.0                 | 23.8               | 23.2                | 95.2          | 92.9           | 73.0-120         |                      |                       | 2.49     | 20              |
| trans-1,2-Dichloroethene    | 25.0                 | 26.3               | 23.9                | 105           | 95.7           | 73.0-120         |                      |                       | 9.45     | 20              |
| 1,2-Dichloropropane         | 25.0                 | 25.6               | 25.5                | 102           | 102            | 77.0-125         |                      |                       | 0.479    | 20              |
| 1,1-Dichloropropene         | 25.0                 | 25.0               | 23.7                | 100           | 94.7           | 74.0-126         |                      |                       | 5.45     | 20              |
| 1,3-Dichloropropane         | 25.0                 | 24.0               | 23.9                | 96.1          | 95.7           | 80.0-120         |                      |                       | 0.492    | 20              |
| cis-1,3-Dichloropropene     | 25.0                 | 23.8               | 23.3                | 95.1          | 93.2           | 80.0-123         |                      |                       | 2.03     | 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) R3407258-1 04/26/19 15:27 • (LCSD) R3407258-2 04/26/19 15:46

| Analyte                        | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD<br>% | RPD Limits<br>% |
|--------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Vinyl acetate                  | 125                  | 116                | 114                 | 92.8          | 91.1           | 11.0-160         |                      |                       | 1.90     | 20              |
| trans-1,3-Dichloropropene      | 25.0                 | 23.1               | 22.2                | 92.6          | 89.0           | 78.0-124         |                      |                       | 3.97     | 20              |
| 2,2-Dichloropropane            | 25.0                 | 32.0               | 30.3                | 128           | 121            | 58.0-130         |                      |                       | 5.52     | 20              |
| Di-isopropyl ether             | 25.0                 | 27.0               | 26.7                | 108           | 107            | 58.0-138         |                      |                       | 1.11     | 20              |
| Ethylbenzene                   | 25.0                 | 24.7               | 24.1                | 98.9          | 96.2           | 79.0-123         |                      |                       | 2.77     | 20              |
| Hexachloro-1,3-butadiene       | 25.0                 | 28.3               | 28.9                | 113           | 116            | 54.0-138         |                      |                       | 2.00     | 20              |
| Isopropylbenzene               | 25.0                 | 25.5               | 24.8                | 102           | 99.3           | 76.0-127         |                      |                       | 2.77     | 20              |
| p-Isopropyltoluene             | 25.0                 | 23.4               | 22.6                | 93.4          | 90.4           | 76.0-125         |                      |                       | 3.26     | 20              |
| 2-Butanone (MEK)               | 125                  | 144                | 150                 | 116           | 120            | 44.0-160         |                      |                       | 3.60     | 20              |
| Methylene Chloride             | 25.0                 | 27.2               | 23.8                | 109           | 95.3           | 67.0-120         |                      |                       | 13.4     | 20              |
| 4-Methyl-2-pentanone (MIBK)    | 125                  | 135                | 139                 | 108           | 111            | 68.0-142         |                      |                       | 2.35     | 20              |
| Methyl tert-butyl ether        | 25.0                 | 22.9               | 22.8                | 91.4          | 91.3           | 68.0-125         |                      |                       | 0.127    | 20              |
| Naphthalene                    | 25.0                 | 23.5               | 24.1                | 94.2          | 96.6           | 54.0-135         |                      |                       | 2.50     | 20              |
| n-Propylbenzene                | 25.0                 | 22.5               | 21.7                | 90.0          | 86.8           | 77.0-124         |                      |                       | 3.58     | 20              |
| Styrene                        | 25.0                 | 26.9               | 26.7                | 108           | 107            | 73.0-130         |                      |                       | 0.962    | 20              |
| 1,1,1,2-Tetrachloroethane      | 25.0                 | 23.5               | 23.2                | 94.0          | 92.7           | 75.0-125         |                      |                       | 1.47     | 20              |
| 1,1,2,2-Tetrachloroethane      | 25.0                 | 22.1               | 21.6                | 88.4          | 86.4           | 65.0-130         |                      |                       | 2.38     | 20              |
| Tetrachloroethene              | 25.0                 | 26.3               | 25.2                | 105           | 101            | 72.0-132         |                      |                       | 4.03     | 20              |
| Toluene                        | 25.0                 | 25.9               | 25.3                | 103           | 101            | 79.0-120         |                      |                       | 2.21     | 20              |
| 1,1,2-Trichlorotrifluoroethane | 25.0                 | 25.7               | 22.6                | 103           | 90.4           | 69.0-132         |                      |                       | 12.7     | 20              |
| 1,2,3-Trichlorobenzene         | 25.0                 | 22.8               | 24.0                | 91.2          | 95.9           | 50.0-138         |                      |                       | 5.02     | 20              |
| 1,2,4-Trichlorobenzene         | 25.0                 | 24.8               | 24.8                | 99.0          | 99.2           | 57.0-137         |                      |                       | 0.213    | 20              |
| 1,1,1-Trichloroethane          | 25.0                 | 24.3               | 22.7                | 97.4          | 90.9           | 73.0-124         |                      |                       | 6.84     | 20              |
| 1,1,2-Trichloroethane          | 25.0                 | 22.5               | 22.2                | 90.1          | 88.8           | 80.0-120         |                      |                       | 1.49     | 20              |
| Trichloroethene                | 25.0                 | 25.6               | 24.4                | 102           | 97.5           | 78.0-124         |                      |                       | 4.75     | 20              |
| Trichlorofluoromethane         | 25.0                 | 17.0               | 16.2                | 68.0          | 64.9           | 59.0-147         |                      |                       | 4.64     | 20              |
| 1,2,3-Trichloropropane         | 25.0                 | 20.7               | 19.8                | 83.0          | 79.3           | 73.0-130         |                      |                       | 4.50     | 20              |
| 1,2,3-Trimethylbenzene         | 25.0                 | 21.4               | 21.2                | 85.6          | 84.7           | 77.0-120         |                      |                       | 1.01     | 20              |
| 1,2,4-Trimethylbenzene         | 25.0                 | 22.2               | 21.6                | 89.0          | 86.3           | 76.0-121         |                      |                       | 3.10     | 20              |
| 1,3,5-Trimethylbenzene         | 25.0                 | 22.8               | 21.9                | 91.1          | 87.7           | 76.0-122         |                      |                       | 3.74     | 20              |
| Vinyl chloride                 | 25.0                 | 19.3               | 18.1                | 77.2          | 72.4           | 67.0-131         |                      |                       | 6.36     | 20              |
| Xylenes, Total                 | 75.0                 | 74.0               | 73.0                | 98.7          | 97.3           | 79.0-123         |                      |                       | 1.36     | 20              |
| (S) Toluene-d8                 |                      |                    |                     | 102           | 101            | 80.0-120         |                      |                       |          |                 |
| (S) 4-Bromofluorobenzene       |                      |                    |                     | 107           | 107            | 77.0-126         |                      |                       |          |                 |
| (S) 1,2-Dichloroethane-d4      |                      |                    |                     | 90.3          | 89.6           | 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) R3407476-3 05/02/19 07:53

| Analyte                   | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>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            | 109               |              |                | 80.0-120       |
| (S) 4-Bromofluorobenzene  | 97.2              |              |                | 77.0-126       |
| (S) 1,2-Dichloroethane-d4 | 88.6              |              |                | 70.0-130       |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

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

(LCS) R3407476-1 05/02/19 06:54 • (LCSD) R3407476-2 05/02/19 07:14

| Analyte                   | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| cis-1,2-Dichloroethene    | 25.0                 | 24.3               | 23.5                | 97.3          | 93.9           | 73.0-120         |               |                | 3.57     | 20              |
| Tetrachloroethene         | 25.0                 | 26.6               | 26.0                | 106           | 104            | 72.0-132         |               |                | 2.19     | 20              |
| Trichloroethene           | 25.0                 | 27.1               | 27.5                | 109           | 110            | 78.0-124         |               |                | 1.41     | 20              |
| Vinyl chloride            | 25.0                 | 23.7               | 22.9                | 94.8          | 91.7           | 67.0-131         |               |                | 3.35     | 20              |
| (S) Toluene-d8            |                      |                    |                     | 107           | 106            | 80.0-120         |               |                |          |                 |
| (S) 4-Bromofluorobenzene  |                      |                    |                     | 97.4          | 98.2           | 77.0-126         |               |                |          |                 |
| (S) 1,2-Dichloroethane-d4 |                      |                    |                     | 96.2          | 97.5           | 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

|                              |  |
|------------------------------|--|
| 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.  |

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

| 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.        |
| J3        | The associated batch QC was outside the established quality control range for precision.  |
| 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 <sup>1</sup>     | n/a              |
| Colorado                | TN00003     | New York                    | 11742            |
| Connecticut             | PH-0197     | North Carolina              | Env375           |
| Florida                 | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                 | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>    | 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 <sup>1,6</sup> | 90010       | South Carolina              | 84004            |
| Kentucky <sup>2</sup>   | 16          | South Dakota                | n/a              |
| Louisiana               | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana <sup>1</sup>  | LA180010    | Texas                       | T104704245-18-15 |
| Maine                   | TN0002      | Texas <sup>5</sup>          | 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             |

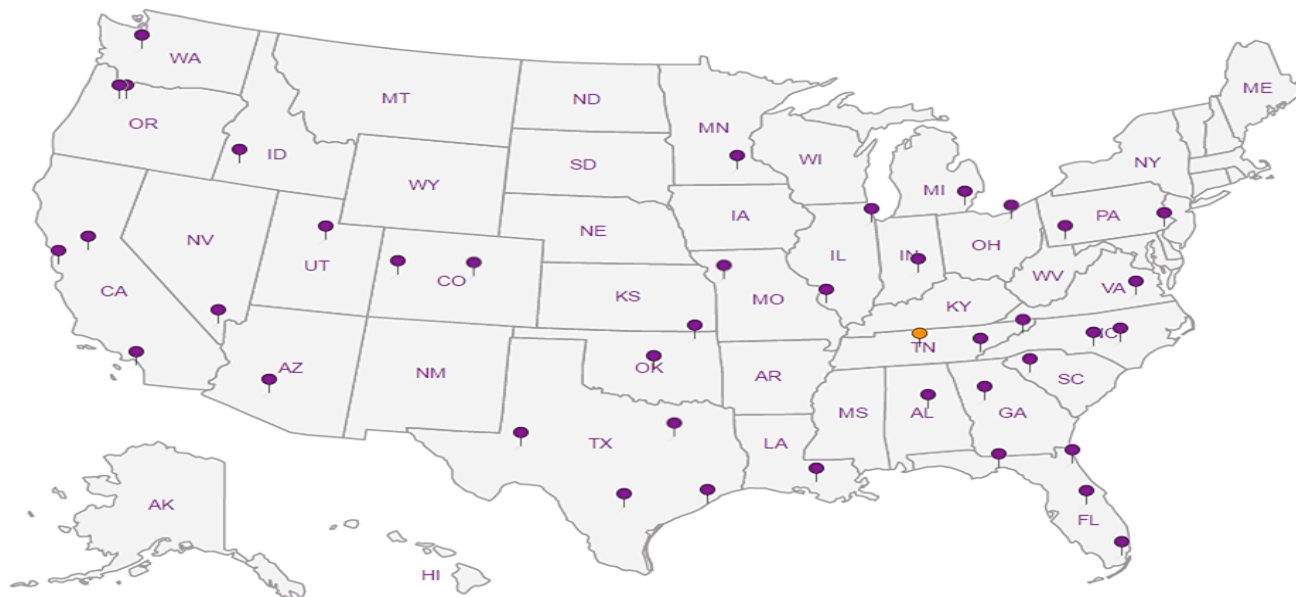
## Third Party Federal Accreditations

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

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**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;  
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):  
*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

*Standard TAT*

Immediately Packed on Ice N  Y

No. of  
Cnts

| Sample ID     | Comp/Grab | Matrix * | Depth | Date    | Time | No. of Cnts | *NO3,SO4,Cl* 125mlHDPE-NoPres | Alkalinity 125mlHDPE-NoPres | EEM (RSK175LL) 40mlAmb-HCl | TOC 250mlAmb-HCl | Total Fe Mn 6020 250mlHDPE-HNO3 | VOC 8020 8260 | GRX (NWTX) GRX | Remarks | Sample # (lab only) |
|---------------|-----------|----------|-------|---------|------|-------------|-------------------------------|-----------------------------|----------------------------|------------------|---------------------------------|---------------|----------------|---------|---------------------|
| MW-125-042319 | Grab      | GW       | 20    | 4/23/19 | 1700 | 65          | cm                            |                             |                            |                  |                                 |               |                |         | -01                 |
| MW-143-042419 |           | GW       | 75    | 4/24/19 | 0910 | 12          |                               |                             |                            |                  |                                 |               |                |         | 02                  |
| MW-908-042419 |           |          | 55    |         | 0700 | 12          |                               |                             |                            |                  |                                 |               |                |         | 03                  |
| MW-909-042419 |           |          | 130   |         | 0800 | 17          |                               |                             |                            |                  |                                 |               |                |         |                     |
| MW-146-042419 |           |          | 45    |         | 0955 |             |                               |                             |                            |                  |                                 |               |                |         |                     |
| MW-142-042419 |           |          | 45    |         | 1035 | 12          |                               |                             |                            |                  |                                 |               |                |         | 04                  |
| MW-154-042419 |           |          | 30    |         | 1140 |             |                               |                             |                            |                  |                                 |               |                |         |                     |
| MW-156-042419 |           |          | 45'   |         | 1230 | 12          |                               |                             |                            |                  |                                 |               |                |         | 05                  |
| MW-153-042419 |           |          | 125   |         | 1255 |             |                               |                             |                            |                  |                                 |               |                |         |                     |
| MW-157-042419 | ✓         | ✓        | 75    | ✓       | 1410 | 12          |                               |                             |                            |                  |                                 |               |                |         | 06                  |

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

Remarks:

*TRIP BLANK - 042419 for all above analysis - 07*  
*VOC & GRAD SCREEN: <0.5 mR/hr*

Samples returned via:  
 UPS  FedEx  Courier

Tracking # *4876 1086 1409*

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)  
*[Signature]*

Date: *4-24-19*  
Time: *1615*

Received by: (Signature)

Trip Blank Received:  Yes  No  
 MeOH  
 TBR

Relinquished by: (Signature)

Date: Time:

Received by: (Signature)

Temp: °C *03±0.05±0.05*  
Bottles Received: *76*

Relinquished by: (Signature)

Date: Time:

Received for lab by: (Signature)  
*[Signature]*

Date: *4/25/19*  
Time: *8:145*

If preservation required by Login: Date/Time

Hold: Condition:  
NCF /  OK





Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 04/26/2019 04:05 | <a href="#">WG1272107</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111    |           |      | 78.0-120 |          | 04/26/2019 04:05 | <a href="#">WG1272107</a> |

1 Cp

2 Tc

3 Ss

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

| Analyte                     | Result | Qualifier | MDL                  | RDL   | Dilution | Analysis         | Batch                     |                           |
|-----------------------------|--------|-----------|----------------------|-------|----------|------------------|---------------------------|---------------------------|
|                             | ug/l   |           | ug/l                 | ug/l  |          | date / time      |                           |                           |
| Acetone                     | 6.93   | U         | <a href="#">J JO</a> | 1.05  | 25.0     | 1                | 04/26/2019 18:07          | <a href="#">WG1272563</a> |
| Acrylonitrile               | U      |           | 0.873                | 5.00  | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| Benzene                     | U      |           | 0.0896               | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| Bromobenzene                | U      |           | 0.133                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| Bromodichloromethane        | U      |           | 0.0800               | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| Bromochloromethane          | U      |           | 0.145                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| Bromoform                   | U      |           | 0.186                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| Bromomethane                | U      | UJ        | <a href="#">JO</a>   | 0.157 | 2.50     | 1                | 04/26/2019 18:07          | <a href="#">WG1272563</a> |
| n-Butylbenzene              | U      |           | 0.143                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| sec-Butylbenzene            | U      |           | 0.134                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| tert-Butylbenzene           | U      |           | 0.183                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| Carbon disulfide            | U      |           | 0.101                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| Carbon tetrachloride        | U      |           | 0.159                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| Chlorobenzene               | U      |           | 0.140                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| Chlorodibromomethane        | U      |           | 0.128                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| Chloroethane                | U      | UJ        | <a href="#">JO</a>   | 0.141 | 2.50     | 1                | 04/26/2019 18:07          | <a href="#">WG1272563</a> |
| Chloroform                  | U      |           | 0.0860               | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| Chloromethane               | U      |           | 0.153                | 1.25  | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| 2-Chlorotoluene             | U      |           | 0.111                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| 4-Chlorotoluene             | U      |           | 0.0972               | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325                | 2.50  | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| 1,2-Dibromoethane           | U      |           | 0.193                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| Dibromomethane              | U      |           | 0.117                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| 1,2-Dichlorobenzene         | U      |           | 0.101                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| 1,3-Dichlorobenzene         | U      |           | 0.130                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| 1,4-Dichlorobenzene         | U      |           | 0.121                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| Dichlorodifluoromethane     | U      |           | 0.127                | 2.50  | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| 1,1-Dichloroethane          | U      |           | 0.114                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| 1,2-Dichloroethane          | U      |           | 0.108                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| 1,1-Dichloroethene          | U      |           | 0.188                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| cis-1,2-Dichloroethene      | U      |           | 0.0933               | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| trans-1,2-Dichloroethene    | U      |           | 0.152                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| 1,2-Dichloropropane         | U      |           | 0.190                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| 1,1-Dichloropropene         | U      |           | 0.128                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| 1,3-Dichloropropane         | U      |           | 0.147                | 1.00  | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| cis-1,3-Dichloropropene     | U      |           | 0.0976               | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| trans-1,3-Dichloropropene   | U      |           | 0.222                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257                | 5.00  | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| 2,2-Dichloropropane         | U      |           | 0.0929               | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| Di-isopropyl ether          | U      |           | 0.0924               | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| Ethylbenzene                | U      |           | 0.158                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| Hexachloro-1,3-butadiene    | U      |           | 0.157                | 1.00  | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| 2-Hexanone                  | U      |           | <del>JS</del>        | 0.757 | 5.00     | 1                | 04/26/2019 18:07          | <a href="#">WG1272563</a> |
| n-Hexane                    | U      |           | 0.305                | 5.00  | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| Iodomethane                 | U      |           | 0.377                | 10.0  | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| Isopropylbenzene            | U      |           | 0.126                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| p-Isopropyltoluene          | U      |           | 0.138                | 0.500 | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |
| 2-Butanone (MEK)            | U      |           | 1.28                 | 5.00  | 1        | 04/26/2019 18:07 | <a href="#">WG1272563</a> |                           |

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/13/19



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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Vinyl acetate                  | U              |           | 0.645       | 5.00        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Vinyl chloride                 | U              | UJ JO     | 0.118       | 0.500       | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| (S) Toluene-d8                 | 96.5           |           |             | 80.0-120    |          | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| (S) 4-Bromofluorobenzene       | 106            |           |             | 77.0-126    |          | 04/26/2019 18:07        | <a href="#">WG1272563</a> |
| (S) 1,2-Dichloroethane-d4      | 92.7           |           |             | 70.0-130    |          | 04/26/2019 18:07        | <a href="#">WG1272563</a> |

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

JC 5/13/19





Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis date / time | Batch                     |
|------------|--------|-----------|------|-------|----------|----------------------|---------------------------|
| Alkalinity | 393000 |           | 2710 | 20000 | 1        | 05/02/2019 02:46     | <a href="#">WG1273787</a> |

Sample Narrative:

L1092440-02 WG1273787: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis date / time | Batch                     |
|----------|--------|-----------|------|------|----------|----------------------|---------------------------|
| Chloride | 56200  |           | 51.9 | 1000 | 1        | 04/25/2019 17:52     | <a href="#">WG1271815</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/25/2019 17:52     | <a href="#">WG1271815</a> |
| Sulfate  | 8530   |           | 77.4 | 5000 | 1        | 04/25/2019 17:52     | <a href="#">WG1271815</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL | RDL  | Dilution | Analysis date / time | Batch                     |
|----------------------------|--------|-----------|-----|------|----------|----------------------|---------------------------|
| TOC (Total Organic Carbon) | 7190   |           | 102 | 1000 | 1        | 04/26/2019 14:22     | <a href="#">WG1272254</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis date / time | Batch                     |
|-----------|--------|-----------|-------|------|----------|----------------------|---------------------------|
| Iron      | 687    | <u>B</u>  | 15.0  | 100  | 1        | 05/07/2019 21:51     | <a href="#">WG1271844</a> |
| Manganese | 317    |           | 0.250 | 5.00 | 1        | 05/07/2019 21:51     | <a href="#">WG1271844</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|----------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 04/26/2019 04:29     | <a href="#">WG1272107</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111    |           |      | 78.0-120 |          | 04/26/2019 04:29     | <a href="#">WG1272107</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL  | Dilution | Analysis date / time | Batch                     |
|---------|--------|-----------|-------|------|----------|----------------------|---------------------------|
| Methane | 6940   |           | 5.74  | 13.6 | 20       | 05/02/2019 17:40     | <a href="#">WG1275114</a> |
| Ethane  | 125    |           | 0.296 | 1.29 | 1        | 05/02/2019 10:54     | <a href="#">WG1274563</a> |
| Ethene  | U      |           | 0.422 | 1.27 | 1        | 05/02/2019 10:54     | <a href="#">WG1274563</a> |

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

| Analyte              | Result | Qualifier | MDL         | RDL   | Dilution | Analysis date / time | Batch                     |                           |
|----------------------|--------|-----------|-------------|-------|----------|----------------------|---------------------------|---------------------------|
| Acetone              | 2.44   | <u>U</u>  | <u>J JO</u> | 1.05  | 25.0     | 1                    | 04/26/2019 18:27          | <a href="#">WG1272563</a> |
| Acrylonitrile        | U      |           | 0.873       | 5.00  | 1        | 04/26/2019 18:27     | <a href="#">WG1272563</a> |                           |
| Benzene              | U      |           | 0.0896      | 0.500 | 1        | 04/26/2019 18:27     | <a href="#">WG1272563</a> |                           |
| Bromobenzene         | U      |           | 0.133       | 0.500 | 1        | 04/26/2019 18:27     | <a href="#">WG1272563</a> |                           |
| Bromodichloromethane | U      |           | 0.0800      | 0.500 | 1        | 04/26/2019 18:27     | <a href="#">WG1272563</a> |                           |
| Bromochloromethane   | U      |           | 0.145       | 0.500 | 1        | 04/26/2019 18:27     | <a href="#">WG1272563</a> |                           |
| Bromoform            | U      |           | 0.186       | 0.500 | 1        | 04/26/2019 18:27     | <a href="#">WG1272563</a> |                           |
| Bromomethane         | U      | <u>UJ</u> | <u>JO</u>   | 0.157 | 2.50     | 1                    | 04/26/2019 18:27          | <a href="#">WG1272563</a> |
| n-Butylbenzene       | U      |           | 0.143       | 0.500 | 1        | 04/26/2019 18:27     | <a href="#">WG1272563</a> |                           |
| sec-Butylbenzene     | U      |           | 0.134       | 0.500 | 1        | 04/26/2019 18:27     | <a href="#">WG1272563</a> |                           |
| tert-Butylbenzene    | U      |           | 0.183       | 0.500 | 1        | 04/26/2019 18:27     | <a href="#">WG1272563</a> |                           |
| Carbon disulfide     | 0.308  | <u>J</u>  | <u>J JO</u> | 0.101 | 0.500    | 1                    | 04/26/2019 18:27          | <a href="#">WG1272563</a> |
| Carbon tetrachloride | U      |           | 0.159       | 0.500 | 1        | 04/26/2019 18:27     | <a href="#">WG1272563</a> |                           |

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      |           |
| Chlorobenzene                  | U      |           | 0.140  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Chlorodibromomethane           | U      |           | 0.128  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Chloroethane                   | U      | UJ JO     | 0.141  | 2.50  | 1        | 04/26/2019 18:27 | WG1272563 |
| Chloroform                     | U      |           | 0.0860 | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Chloromethane                  | U      |           | 0.153  | 1.25  | 1        | 04/26/2019 18:27 | WG1272563 |
| 2-Chlorotoluene                | U      |           | 0.111  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 4-Chlorotoluene                | U      |           | 0.0972 | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,2-Dibromo-3-Chloropropane    | U      |           | 0.325  | 2.50  | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,2-Dibromoethane              | U      |           | 0.193  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Dibromomethane                 | U      |           | 0.117  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,2-Dichlorobenzene            | U      |           | 0.101  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,3-Dichlorobenzene            | U      |           | 0.130  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,4-Dichlorobenzene            | U      |           | 0.121  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Dichlorodifluoromethane        | U      |           | 0.127  | 2.50  | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,1-Dichloroethane             | U      |           | 0.114  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,2-Dichloroethane             | U      |           | 0.108  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,1-Dichloroethene             | U      |           | 0.188  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| cis-1,2-Dichloroethene         | U      |           | 0.0933 | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| trans-1,2-Dichloroethene       | U      |           | 0.152  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,2-Dichloropropane            | U      |           | 0.190  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,1-Dichloropropene            | U      |           | 0.128  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,3-Dichloropropane            | U      |           | 0.147  | 1.00  | 1        | 04/26/2019 18:27 | WG1272563 |
| cis-1,3-Dichloropropene        | U      |           | 0.0976 | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| trans-1,3-Dichloropropene      | U      |           | 0.222  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| trans-1,4-Dichloro-2-butene    | U      |           | 0.257  | 5.00  | 1        | 04/26/2019 18:27 | WG1272563 |
| 2,2-Dichloropropane            | U      |           | 0.0929 | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Di-isopropyl ether             | U      |           | 0.0924 | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Ethylbenzene                   | U      |           | 0.158  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Hexachloro-1,3-butadiene       | U      |           | 0.157  | 1.00  | 1        | 04/26/2019 18:27 | WG1272563 |
| 2-Hexanone                     | U      | J3        | 0.757  | 5.00  | 1        | 04/26/2019 18:27 | WG1272563 |
| n-Hexane                       | U      |           | 0.305  | 5.00  | 1        | 04/26/2019 18:27 | WG1272563 |
| Iodomethane                    | U      |           | 0.377  | 10.0  | 1        | 04/26/2019 18:27 | WG1272563 |
| Isopropylbenzene               | U      |           | 0.126  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| p-Isopropyltoluene             | U      |           | 0.138  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 2-Butanone (MEK)               | U      |           | 1.28   | 5.00  | 1        | 04/26/2019 18:27 | WG1272563 |
| Methylene Chloride             | U      |           | 1.07   | 2.50  | 1        | 04/26/2019 18:27 | WG1272563 |
| 4-Methyl-2-pentanone (MIBK)    | U      |           | 0.823  | 5.00  | 1        | 04/26/2019 18:27 | WG1272563 |
| Methyl tert-butyl ether        | U      |           | 0.102  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Naphthalene                    | U      |           | 0.174  | 2.50  | 1        | 04/26/2019 18:27 | WG1272563 |
| n-Propylbenzene                | U      |           | 0.162  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Styrene                        | U      |           | 0.117  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,1,1,2-Tetrachloroethane      | U      |           | 0.120  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,1,2,2-Tetrachloroethane      | U      |           | 0.130  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,1,2-Trichlorotrifluoroethane | U      |           | 0.164  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Tetrachloroethene              | U      |           | 0.199  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Toluene                        | U      |           | 0.412  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,2,3-Trichlorobenzene         | U      |           | 0.164  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,2,4-Trichlorobenzene         | U      |           | 0.355  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,1,1-Trichloroethane          | U      |           | 0.0940 | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,1,2-Trichloroethane          | U      |           | 0.186  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Trichloroethene                | U      |           | 0.153  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| Trichlorofluoromethane         | U      | UJ JO     | 0.130  | 2.50  | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,2,3-Trichloropropane         | U      |           | 0.247  | 2.50  | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,2,4-Trimethylbenzene         | U      |           | 0.123  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,2,3-Trimethylbenzene         | U      |           | 0.0739 | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |
| 1,3,5-Trimethylbenzene         | U      |           | 0.124  | 0.500 | 1        | 04/26/2019 18:27 | WG1272563 |

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

JC 5/13/19



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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 04/26/2019 18:27        | <a href="#">WG1272563</a> |
| Vinyl chloride            | U              | UJ JO     | 0.118       | 0.500       | 1        | 04/26/2019 18:27        | <a href="#">WG1272563</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/26/2019 18:27        | <a href="#">WG1272563</a> |
| (S) Toluene-d8            | 101            |           |             | 80.0-120    |          | 04/26/2019 18:27        | <a href="#">WG1272563</a> |
| (S) 4-Bromofluorobenzene  | 107            |           |             | 77.0-126    |          | 04/26/2019 18:27        | <a href="#">WG1272563</a> |
| (S) 1,2-Dichloroethane-d4 | 92.2           |           |             | 70.0-130    |          | 04/26/2019 18:27        | <a href="#">WG1272563</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/13/19



Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis date / time | Batch                     |
|------------|--------|-----------|------|-------|----------|----------------------|---------------------------|
| Alkalinity | 612000 |           | 2710 | 20000 | 1        | 05/02/2019 02:54     | <a href="#">WG1273787</a> |

Sample Narrative:

L1092440-03 WG1273787: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL   | Dilution | Analysis date / time | Batch                     |
|----------|--------|-----------|------|-------|----------|----------------------|---------------------------|
| Chloride | 19300  |           | 51.9 | 1000  | 1        | 04/25/2019 18:10     | <a href="#">WG1271815</a> |
| Nitrate  | 259    |           | 22.7 | 100   | 1        | 04/25/2019 18:10     | <a href="#">WG1271815</a> |
| Sulfate  | 145000 |           | 387  | 25000 | 5        | 04/26/2019 01:16     | <a href="#">WG1271815</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL | RDL  | Dilution | Analysis date / time | Batch                     |
|----------------------------|--------|-----------|-----|------|----------|----------------------|---------------------------|
| TOC (Total Organic Carbon) | 56000  |           | 102 | 1000 | 1        | 04/26/2019 15:44     | <a href="#">WG1272254</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis date / time | Batch                     |
|-----------|--------|-----------|-------|------|----------|----------------------|---------------------------|
| Iron      | 4760   |           | 15.0  | 100  | 1        | 05/07/2019 21:56     | <a href="#">WG1271844</a> |
| Manganese | 9750   |           | 0.250 | 5.00 | 1        | 05/07/2019 21:56     | <a href="#">WG1271844</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|----------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 2600   |           | 31.6 | 100      | 1        | 04/26/2019 04:53     | <a href="#">WG1272107</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 112    |           |      | 78.0-120 |          | 04/26/2019 04:53     | <a href="#">WG1272107</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis date / time | Batch                     |
|---------|--------|-----------|-------|-------|----------|----------------------|---------------------------|
| Methane | 1590   |           | 0.287 | 0.678 | 1        | 05/02/2019 10:59     | <a href="#">WG1274563</a> |
| Ethane  | 28.4   |           | 0.296 | 1.29  | 1        | 05/02/2019 10:59     | <a href="#">WG1274563</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 05/02/2019 10:59     | <a href="#">WG1274563</a> |

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

| Analyte              | Result | Qualifier | MDL    | RDL    | Dilution | Analysis date / time | Batch                     |                           |
|----------------------|--------|-----------|--------|--------|----------|----------------------|---------------------------|---------------------------|
| Acetone              | 2.50   | U         | J JO   | 1.05   | 25.0     | 1                    | 04/26/2019 18:47          | <a href="#">WG1272563</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00   | 1        | 04/26/2019 18:47     | <a href="#">WG1272563</a> |                           |
| Benzene              | 0.330  | J         | J      | 0.0896 | 0.500    | 1                    | 04/26/2019 18:47          | <a href="#">WG1272563</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500  | 1        | 04/26/2019 18:47     | <a href="#">WG1272563</a> |                           |
| Bromodichloromethane | U      |           | 0.0800 | 0.500  | 1        | 04/26/2019 18:47     | <a href="#">WG1272563</a> |                           |
| Bromochloromethane   | U      |           | 0.145  | 0.500  | 1        | 04/26/2019 18:47     | <a href="#">WG1272563</a> |                           |
| Bromoform            | U      |           | 0.186  | 0.500  | 1        | 04/26/2019 18:47     | <a href="#">WG1272563</a> |                           |
| Bromomethane         | U      | UJ        | JO     | 0.157  | 2.50     | 1                    | 04/26/2019 18:47          | <a href="#">WG1272563</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500  | 1        | 04/26/2019 18:47     | <a href="#">WG1272563</a> |                           |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500  | 1        | 04/26/2019 18:47     | <a href="#">WG1272563</a> |                           |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500  | 1        | 04/26/2019 18:47     | <a href="#">WG1272563</a> |                           |
| Carbon disulfide     | U      |           | 0.101  | 0.500  | 1        | 04/26/2019 18:47     | <a href="#">WG1272563</a> |                           |
| Carbon tetrachloride | U      |           | 0.159  | 0.500  | 1        | 04/26/2019 18:47     | <a href="#">WG1272563</a> |                           |

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



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

| Analyte                        | Result<br>ug/l | Qualifier     | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|--------------------------------|----------------|---------------|-------------|-------------|----------|-------------------------|-----------|
| Chlorobenzene                  | U              |               | 0.140       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| Chlorodibromomethane           | U              |               | 0.128       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| Chloroethane                   | U              | UJ JO         | 0.141       | 2.50        | 1        | 04/26/2019 18:47        | WG1272563 |
| Chloroform                     | U              |               | 0.0860      | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| Chloromethane                  | U              |               | 0.153       | 1.25        | 1        | 04/26/2019 18:47        | WG1272563 |
| 2-Chlorotoluene                | U              |               | 0.111       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 4-Chlorotoluene                | U              |               | 0.0972      | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,2-Dibromo-3-Chloropropane    | U              |               | 0.325       | 2.50        | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,2-Dibromoethane              | U              |               | 0.193       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| Dibromomethane                 | U              |               | 0.117       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,2-Dichlorobenzene            | U              |               | 0.101       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,3-Dichlorobenzene            | U              |               | 0.130       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,4-Dichlorobenzene            | U              |               | 0.121       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| Dichlorodifluoromethane        | U              |               | 0.127       | 2.50        | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,1-Dichloroethane             | U              |               | 0.114       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,2-Dichloroethane             | U              |               | 0.108       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,1-Dichloroethene             | 11.8           |               | 0.188       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| cis-1,2-Dichloroethene         | 1760           |               | 4.66        | 25.0        | 50       | 05/02/2019 10:41        | WG1274830 |
| trans-1,2-Dichloroethene       | 9.31           |               | 0.152       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,2-Dichloropropane            | U              |               | 0.190       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,1-Dichloropropene            | U              |               | 0.128       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,3-Dichloropropane            | U              |               | 0.147       | 1.00        | 1        | 04/26/2019 18:47        | WG1272563 |
| cis-1,3-Dichloropropene        | U              |               | 0.0976      | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| trans-1,3-Dichloropropene      | U              |               | 0.222       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| trans-1,4-Dichloro-2-butene    | U              |               | 0.257       | 5.00        | 1        | 04/26/2019 18:47        | WG1272563 |
| 2,2-Dichloropropane            | U              |               | 0.0929      | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| Di-isopropyl ether             | U              |               | 0.0924      | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| Ethylbenzene                   | U              |               | 0.158       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| Hexachloro-1,3-butadiene       | U              |               | 0.157       | 1.00        | 1        | 04/26/2019 18:47        | WG1272563 |
| 2-Hexanone                     | U              | <del>33</del> | 0.757       | 5.00        | 1        | 04/26/2019 18:47        | WG1272563 |
| n-Hexane                       | U              |               | 0.305       | 5.00        | 1        | 04/26/2019 18:47        | WG1272563 |
| Iodomethane                    | U              |               | 0.377       | 10.0        | 1        | 04/26/2019 18:47        | WG1272563 |
| Isopropylbenzene               | U              |               | 0.126       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| p-Isopropyltoluene             | U              |               | 0.138       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 2-Butanone (MEK)               | U              |               | 1.28        | 5.00        | 1        | 04/26/2019 18:47        | WG1272563 |
| Methylene Chloride             | U              |               | 1.07        | 2.50        | 1        | 04/26/2019 18:47        | WG1272563 |
| 4-Methyl-2-pentanone (MIBK)    | U              |               | 0.823       | 5.00        | 1        | 04/26/2019 18:47        | WG1272563 |
| Methyl tert-butyl ether        | U              |               | 0.102       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| Naphthalene                    | U              |               | 0.174       | 2.50        | 1        | 04/26/2019 18:47        | WG1272563 |
| n-Propylbenzene                | U              |               | 0.162       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| Styrene                        | U              |               | 0.117       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,1,1,2-Tetrachloroethane      | U              |               | 0.120       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,1,2,2-Tetrachloroethane      | U              |               | 0.130       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,1,2-Trichlorotrifluoroethane | U              |               | 0.164       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| Tetrachloroethene              | 1440           |               | 9.95        | 25.0        | 50       | 05/02/2019 10:41        | WG1274830 |
| Toluene                        | U              |               | 0.412       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,2,3-Trichlorobenzene         | U              |               | 0.164       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,2,4-Trichlorobenzene         | U              |               | 0.355       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,1,1-Trichloroethane          | U              |               | 0.0940      | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,1,2-Trichloroethane          | U              |               | 0.186       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| Trichloroethene                | 717            |               | 7.65        | 25.0        | 50       | 05/02/2019 10:41        | WG1274830 |
| Trichlorofluoromethane         | U              | UJ JO         | 0.130       | 2.50        | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,2,3-Trichloropropane         | U              |               | 0.247       | 2.50        | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,2,4-Trimethylbenzene         | U              |               | 0.123       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,2,3-Trimethylbenzene         | U              |               | 0.0739      | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |
| 1,3,5-Trimethylbenzene         | U              |               | 0.124       | 0.500       | 1        | 04/26/2019 18:47        | WG1272563 |

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

JC 5/13/19



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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 04/26/2019 18:47        | <a href="#">WG1272563</a> |
| Vinyl chloride            | 3.34           | J JO      | 0.118       | 0.500       | 1        | 04/26/2019 18:47        | <a href="#">WG1272563</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/26/2019 18:47        | <a href="#">WG1272563</a> |
| (S) Toluene-d8            | 100            |           |             | 80.0-120    |          | 04/26/2019 18:47        | <a href="#">WG1272563</a> |
| (S) Toluene-d8            | 108            |           |             | 80.0-120    |          | 05/02/2019 10:41        | <a href="#">WG1274830</a> |
| (S) 4-Bromofluorobenzene  | 107            |           |             | 77.0-126    |          | 04/26/2019 18:47        | <a href="#">WG1272563</a> |
| (S) 4-Bromofluorobenzene  | 100            |           |             | 77.0-126    |          | 05/02/2019 10:41        | <a href="#">WG1274830</a> |
| (S) 1,2-Dichloroethane-d4 | 90.2           |           |             | 70.0-130    |          | 04/26/2019 18:47        | <a href="#">WG1272563</a> |
| (S) 1,2-Dichloroethane-d4 | 90.2           |           |             | 70.0-130    |          | 05/02/2019 10:41        | <a href="#">WG1274830</a> |

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

JC 5/13/19



Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 798000 |           | 2710 | 20000 | 1        | 05/02/2019 03:00 | <a href="#">WG1273787</a> |

Sample Narrative:

L1092440-04 WG1273787: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 9760   |           | 51.9 | 1000 | 1        | 04/25/2019 18:28 | <a href="#">WG1271815</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/25/2019 18:28 | <a href="#">WG1271815</a> |
| Sulfate  | 27300  |           | 77.4 | 5000 | 1        | 04/25/2019 18:28 | <a href="#">WG1271815</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 31700  |           | 102  | 1000 | 1        | 04/26/2019 16:00 | <a href="#">WG1272254</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 3500   |           | 15.0  | 100  | 1        | 05/07/2019 22:01 | <a href="#">WG1271844</a> |
| Manganese | 1990   |           | 0.250 | 5.00 | 1        | 05/07/2019 22:01 | <a href="#">WG1271844</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 04/26/2019 05:17 | <a href="#">WG1272107</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111    |           |      | 78.0-120 |          | 04/26/2019 05:17 | <a href="#">WG1272107</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 3560   |           | 0.287 | 0.678 | 1        | 05/02/2019 11:08 | <a href="#">WG1274563</a> |
| Ethane  | 19.2   |           | 0.296 | 1.29  | 1        | 05/02/2019 11:08 | <a href="#">WG1274563</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 05/02/2019 11:08 | <a href="#">WG1274563</a> |

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

| Analyte              | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch                                |
|----------------------|--------|-----------|--------|-------|----------|------------------|--------------------------------------|
|                      | ug/l   |           | ug/l   | ug/l  |          | date / time      |                                      |
| Acetone              | 2.52   | U J JO    | 1.05   | 25.0  | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a>            |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a>            |
| Benzene              | 0.361  | J J       | 0.0896 | 0.500 | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a>            |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a>            |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a>            |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a>            |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a>            |
| Bromomethane         | U      | UJ JO     | 0.157  | 2.50  | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a>            |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a>            |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a> JC 5/13/19 |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a>            |
| Carbon disulfide     | U      |           | 0.101  | 0.500 | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a>            |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 04/26/2019 19:07 | <a href="#">WG1272563</a>            |

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      |           |
| Chlorobenzene                  | U      |           | 0.140  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| Chlorodibromomethane           | U      |           | 0.128  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| Chloroethane                   | U      | UJ JO     | 0.141  | 2.50  | 1        | 04/26/2019 19:07 | WG1272563 |
| Chloroform                     | U      |           | 0.0860 | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| Chloromethane                  | U      |           | 0.153  | 1.25  | 1        | 04/26/2019 19:07 | WG1272563 |
| 2-Chlorotoluene                | U      |           | 0.111  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| 4-Chlorotoluene                | U      |           | 0.0972 | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| 1,2-Dibromo-3-Chloropropane    | U      |           | 0.325  | 2.50  | 1        | 04/26/2019 19:07 | WG1272563 |
| 1,2-Dibromoethane              | U      |           | 0.193  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| Dibromomethane                 | U      |           | 0.117  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| 1,2-Dichlorobenzene            | U      |           | 0.101  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| 1,3-Dichlorobenzene            | U      |           | 0.130  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| 1,4-Dichlorobenzene            | U      |           | 0.121  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| Dichlorodifluoromethane        | U      |           | 0.127  | 2.50  | 1        | 04/26/2019 19:07 | WG1272563 |
| 1,1-Dichloroethane             | U      |           | 0.114  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| 1,2-Dichloroethane             | U      |           | 0.108  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| 1,1-Dichloroethene             | U      |           | 0.188  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| cis-1,2-Dichloroethene         | 5.67   |           | 0.0933 | 0.500 | 1        | 05/02/2019 10:21 | WG1274830 |
| trans-1,2-Dichloroethene       | U      |           | 0.152  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| 1,2-Dichloropropane            | U      |           | 0.190  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| 1,1-Dichloropropene            | U      |           | 0.128  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| 1,3-Dichloropropane            | U      |           | 0.147  | 1.00  | 1        | 04/26/2019 19:07 | WG1272563 |
| cis-1,3-Dichloropropene        | U      |           | 0.0976 | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| trans-1,3-Dichloropropene      | U      |           | 0.222  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| trans-1,4-Dichloro-2-butene    | U      |           | 0.257  | 5.00  | 1        | 04/26/2019 19:07 | WG1272563 |
| 2,2-Dichloropropane            | U      |           | 0.0929 | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| Di-isopropyl ether             | U      |           | 0.0924 | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| Ethylbenzene                   | U      |           | 0.158  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| Hexachloro-1,3-butadiene       | U      |           | 0.157  | 1.00  | 1        | 04/26/2019 19:07 | WG1272563 |
| 2-Hexanone                     | U      | J3        | 0.757  | 5.00  | 1        | 04/26/2019 19:07 | WG1272563 |
| n-Hexane                       | U      |           | 0.305  | 5.00  | 1        | 04/26/2019 19:07 | WG1272563 |
| Iodomethane                    | U      |           | 0.377  | 10.0  | 1        | 04/26/2019 19:07 | WG1272563 |
| Isopropylbenzene               | U      |           | 0.126  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| p-Isopropyltoluene             | U      |           | 0.138  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| 2-Butanone (MEK)               | U      |           | 1.28   | 5.00  | 1        | 04/26/2019 19:07 | WG1272563 |
| Methylene Chloride             | U      |           | 1.07   | 2.50  | 1        | 04/26/2019 19:07 | WG1272563 |
| 4-Methyl-2-pentanone (MIBK)    | U      |           | 0.823  | 5.00  | 1        | 04/26/2019 19:07 | WG1272563 |
| Methyl tert-butyl ether        | U      |           | 0.102  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| Naphthalene                    | U      |           | 0.174  | 2.50  | 1        | 04/26/2019 19:07 | WG1272563 |
| n-Propylbenzene                | U      |           | 0.162  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| Styrene                        | U      |           | 0.117  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| 1,1,1,2-Tetrachloroethane      | U      |           | 0.120  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| 1,1,2,2-Tetrachloroethane      | U      |           | 0.130  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| 1,1,2-Trichlorotrifluoroethane | U      |           | 0.164  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| Tetrachloroethene              | U      |           | 0.199  | 0.500 | 1        | 05/02/2019 10:21 | WG1274830 |
| Toluene                        | U      |           | 0.412  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| 1,2,3-Trichlorobenzene         | U      |           | 0.164  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| 1,2,4-Trichlorobenzene         | U      |           | 0.355  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| 1,1,1-Trichloroethane          | U      |           | 0.0940 | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| 1,1,2-Trichloroethane          | U      |           | 0.186  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| Trichloroethene                | 0.156  | J J       | 0.153  | 0.500 | 1        | 05/02/2019 10:21 | WG1274830 |
| Trichlorofluoromethane         | U      | UJ JO     | 0.130  | 2.50  | 1        | 04/26/2019 19:07 | WG1272563 |
| 1,2,3-Trichloropropane         | U      |           | 0.247  | 2.50  | 1        | 04/26/2019 19:07 | WG1272563 |
| 1,2,4-Trimethylbenzene         | U      |           | 0.123  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| 1,2,3-Trimethylbenzene         | U      |           | 0.0739 | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |
| 1,3,5-Trimethylbenzene         | U      |           | 0.124  | 0.500 | 1        | 04/26/2019 19:07 | WG1272563 |

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

JC 5/13/19





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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 04/26/2019 19:07        | <a href="#">WG1272563</a> |
| Vinyl chloride            | 4.39           | J JO      | 0.118       | 0.500       | 1        | 04/26/2019 19:07        | <a href="#">WG1272563</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/26/2019 19:07        | <a href="#">WG1272563</a> |
| (S) Toluene-d8            | 100            |           |             | 80.0-120    |          | 04/26/2019 19:07        | <a href="#">WG1272563</a> |
| (S) Toluene-d8            | 107            |           |             | 80.0-120    |          | 05/02/2019 10:21        | <a href="#">WG1274830</a> |
| (S) 4-Bromofluorobenzene  | 107            |           |             | 77.0-126    |          | 04/26/2019 19:07        | <a href="#">WG1272563</a> |
| (S) 4-Bromofluorobenzene  | 97.3           |           |             | 77.0-126    |          | 05/02/2019 10:21        | <a href="#">WG1274830</a> |
| (S) 1,2-Dichloroethane-d4 | 92.9           |           |             | 70.0-130    |          | 04/26/2019 19:07        | <a href="#">WG1272563</a> |
| (S) 1,2-Dichloroethane-d4 | 89.2           |           |             | 70.0-130    |          | 05/02/2019 10:21        | <a href="#">WG1274830</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/13/19



Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 618000 |           | 2710 | 20000 | 1        | 05/02/2019 03:08 | <a href="#">WG1273787</a> |

Sample Narrative:

L1092440-05 WG1273787: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|-------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Chloride | 18600  |           | 51.9 | 1000  | 1        | 04/25/2019 19:21 | <a href="#">WG1271815</a> |
| Nitrate  | U      |           | 22.7 | 100   | 1        | 04/25/2019 19:21 | <a href="#">WG1271815</a> |
| Sulfate  | 145000 |           | 387  | 25000 | 5        | 04/26/2019 01:34 | <a href="#">WG1271815</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 57300  |           | 102  | 1000 | 1        | 04/26/2019 16:20 | <a href="#">WG1272254</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 3810   |           | 15.0  | 100  | 1        | 05/07/2019 22:05 | <a href="#">WG1271844</a> |
| Manganese | 9010   |           | 0.250 | 5.00 | 1        | 05/07/2019 22:05 | <a href="#">WG1271844</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | 2570   |           | 31.6 | 100      | 1        | 04/26/2019 05:41 | <a href="#">WG1272107</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 112    |           |      | 78.0-120 |          | 04/26/2019 05:41 | <a href="#">WG1272107</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 1720   |           | 0.287 | 0.678 | 1        | 05/02/2019 11:12 | <a href="#">WG1274563</a> |
| Ethane  | 31.2   |           | 0.296 | 1.29  | 1        | 05/02/2019 11:12 | <a href="#">WG1274563</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 05/02/2019 11:12 | <a href="#">WG1274563</a> |

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

| Analyte              | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch                     |
|----------------------|--------|-----------|--------|-------|----------|------------------|---------------------------|
|                      | ug/l   |           | ug/l   | ug/l  |          | date / time      |                           |
| Acetone              | 2.00   | U J JO    | 1.05   | 25.0  | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |
| Benzene              | 0.339  | J J       | 0.0896 | 0.500 | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |
| Bromomethane         | U      | UJ JO     | 0.157  | 2.50  | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |
| Carbon disulfide     | U      |           | 0.101  | 0.500 | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 04/26/2019 19:27 | <a href="#">WG1272563</a> |

JC 5/13/19

- 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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| Chloroethane                   | U              | UJ JO     | 0.141       | 2.50        | 1        | 04/26/2019 19:27        | WG1272563 |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 04/26/2019 19:27        | WG1272563 |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,1-Dichloroethene             | 12.3           |           | 0.188       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| cis-1,2-Dichloroethene         | 1770           |           | 4.66        | 25.0        | 50       | 05/02/2019 11:00        | WG1274830 |
| trans-1,2-Dichloroethene       | 9.41           |           | 0.152       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 04/26/2019 19:27        | WG1272563 |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 04/26/2019 19:27        | WG1272563 |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 04/26/2019 19:27        | WG1272563 |
| 2-Hexanone                     | U              | J3        | 0.757       | 5.00        | 1        | 04/26/2019 19:27        | WG1272563 |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 04/26/2019 19:27        | WG1272563 |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 04/26/2019 19:27        | WG1272563 |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 04/26/2019 19:27        | WG1272563 |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/26/2019 19:27        | WG1272563 |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/26/2019 19:27        | WG1272563 |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/26/2019 19:27        | WG1272563 |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| Tetrachloroethene              | 1430           |           | 9.95        | 25.0        | 50       | 05/02/2019 11:00        | WG1274830 |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| Trichloroethene                | 727            |           | 7.65        | 25.0        | 50       | 05/02/2019 11:00        | WG1274830 |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/26/2019 19:27        | WG1272563 |

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

JC 5/13/19



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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 04/26/2019 19:27        | <a href="#">WG1272563</a> |
| Vinyl chloride            | 3.21           | J JO      | 0.118       | 0.500       | 1        | 04/26/2019 19:27        | <a href="#">WG1272563</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/26/2019 19:27        | <a href="#">WG1272563</a> |
| (S) Toluene-d8            | 96.4           |           |             | 80.0-120    |          | 04/26/2019 19:27        | <a href="#">WG1272563</a> |
| (S) Toluene-d8            | 106            |           |             | 80.0-120    |          | 05/02/2019 11:00        | <a href="#">WG1274830</a> |
| (S) 4-Bromofluorobenzene  | 99.4           |           |             | 77.0-126    |          | 04/26/2019 19:27        | <a href="#">WG1272563</a> |
| (S) 4-Bromofluorobenzene  | 99.5           |           |             | 77.0-126    |          | 05/02/2019 11:00        | <a href="#">WG1274830</a> |
| (S) 1,2-Dichloroethane-d4 | 105            |           |             | 70.0-130    |          | 04/26/2019 19:27        | <a href="#">WG1272563</a> |
| (S) 1,2-Dichloroethane-d4 | 91.1           |           |             | 70.0-130    |          | 05/02/2019 11:00        | <a href="#">WG1274830</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/13/19



Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 513000 |           | 2710 | 20000 | 1        | 05/02/2019 03:22 | <a href="#">WG1273787</a> |

Sample Narrative:

L1092440-06 WG1273787: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 34100  |           | 51.9 | 1000 | 1        | 04/25/2019 19:39 | <a href="#">WG1271815</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/25/2019 19:39 | <a href="#">WG1271815</a> |
| Sulfate  | 95000  |           | 77.4 | 5000 | 1        | 04/25/2019 19:39 | <a href="#">WG1271815</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 39500  |           | 102  | 1000 | 1        | 04/26/2019 16:35 | <a href="#">WG1272254</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 9400   |           | 15.0  | 100  | 1        | 05/07/2019 22:58 | <a href="#">WG1271844</a> |
| Manganese | 2130   |           | 0.250 | 5.00 | 1        | 05/07/2019 22:58 | <a href="#">WG1271844</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | 3210   |           | 31.6 | 100      | 1        | 04/26/2019 06:05 | <a href="#">WG1272107</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 112    |           |      | 78.0-120 |          | 04/26/2019 06:05 | <a href="#">WG1272107</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 5510   |           | 0.287 | 0.678 | 1        | 05/02/2019 11:25 | <a href="#">WG1274563</a> |
| Ethane  | 36.0   |           | 0.296 | 1.29  | 1        | 05/02/2019 11:25 | <a href="#">WG1274563</a> |
| Ethene  | 119    |           | 0.422 | 1.27  | 1        | 05/02/2019 11:25 | <a href="#">WG1274563</a> |

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

| Analyte              | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch                                |
|----------------------|--------|-----------|--------|-------|----------|------------------|--------------------------------------|
|                      | ug/l   |           | ug/l   | ug/l  |          | date / time      |                                      |
| Acetone              | 3.28   | U J JO    | 1.05   | 25.0  | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a>            |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a>            |
| Benzene              | 0.254  | J J       | 0.0896 | 0.500 | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a>            |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a>            |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a>            |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a>            |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a>            |
| Bromomethane         | U      | UJ JO     | 0.157  | 2.50  | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a> JC 5/13/19 |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a>            |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a>            |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a>            |
| Carbon disulfide     | 0.137  | J J       | 0.101  | 0.500 | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a>            |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a>            |

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<br>ug/l | Qualifier     | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|--------------------------------|----------------|---------------|-------------|-------------|----------|-------------------------|-----------|
| Chlorobenzene                  | U              |               | 0.140       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| Chlorodibromomethane           | U              |               | 0.128       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| Chloroethane                   | 0.752          | J JJ0         | 0.141       | 2.50        | 1        | 04/26/2019 19:47        | WG1272563 |
| Chloroform                     | U              |               | 0.0860      | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| Chloromethane                  | U              |               | 0.153       | 1.25        | 1        | 04/26/2019 19:47        | WG1272563 |
| 2-Chlorotoluene                | U              |               | 0.111       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 4-Chlorotoluene                | U              |               | 0.0972      | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,2-Dibromo-3-Chloropropane    | U              |               | 0.325       | 2.50        | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,2-Dibromoethane              | U              |               | 0.193       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| Dibromomethane                 | U              |               | 0.117       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,2-Dichlorobenzene            | U              |               | 0.101       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,3-Dichlorobenzene            | U              |               | 0.130       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,4-Dichlorobenzene            | U              |               | 0.121       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| Dichlorodifluoromethane        | U              |               | 0.127       | 2.50        | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,1-Dichloroethane             | U              |               | 0.114       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,2-Dichloroethane             | U              |               | 0.108       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,1-Dichloroethene             | 11.7           |               | 0.188       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| cis-1,2-Dichloroethene         | 3550           |               | 4.66        | 25.0        | 50       | 05/02/2019 11:20        | WG1274830 |
| trans-1,2-Dichloroethene       | 15.9           |               | 0.152       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,2-Dichloropropane            | U              |               | 0.190       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,1-Dichloropropene            | U              |               | 0.128       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,3-Dichloropropane            | U              |               | 0.147       | 1.00        | 1        | 04/26/2019 19:47        | WG1272563 |
| cis-1,3-Dichloropropene        | U              |               | 0.0976      | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| trans-1,3-Dichloropropene      | U              |               | 0.222       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| trans-1,4-Dichloro-2-butene    | U              |               | 0.257       | 5.00        | 1        | 04/26/2019 19:47        | WG1272563 |
| 2,2-Dichloropropane            | U              |               | 0.0929      | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| Di-isopropyl ether             | U              |               | 0.0924      | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| Ethylbenzene                   | U              |               | 0.158       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| Hexachloro-1,3-butadiene       | U              |               | 0.157       | 1.00        | 1        | 04/26/2019 19:47        | WG1272563 |
| 2-Hexanone                     | U              | <del>J3</del> | 0.757       | 5.00        | 1        | 04/26/2019 19:47        | WG1272563 |
| n-Hexane                       | U              |               | 0.305       | 5.00        | 1        | 04/26/2019 19:47        | WG1272563 |
| Iodomethane                    | U              |               | 0.377       | 10.0        | 1        | 04/26/2019 19:47        | WG1272563 |
| Isopropylbenzene               | U              |               | 0.126       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| p-Isopropyltoluene             | U              |               | 0.138       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 2-Butanone (MEK)               | U              |               | 1.28        | 5.00        | 1        | 04/26/2019 19:47        | WG1272563 |
| Methylene Chloride             | U              |               | 1.07        | 2.50        | 1        | 04/26/2019 19:47        | WG1272563 |
| 4-Methyl-2-pentanone (MIBK)    | U              |               | 0.823       | 5.00        | 1        | 04/26/2019 19:47        | WG1272563 |
| Methyl tert-butyl ether        | U              |               | 0.102       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| Naphthalene                    | U              |               | 0.174       | 2.50        | 1        | 04/26/2019 19:47        | WG1272563 |
| n-Propylbenzene                | U              |               | 0.162       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| Styrene                        | U              |               | 0.117       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,1,1,2-Tetrachloroethane      | U              |               | 0.120       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,1,2,2-Tetrachloroethane      | U              |               | 0.130       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,1,2-Trichlorotrifluoroethane | U              |               | 0.164       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| Tetrachloroethene              | U              |               | 9.95        | 25.0        | 50       | 05/02/2019 11:20        | WG1274830 |
| Toluene                        | U              |               | 0.412       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,2,3-Trichlorobenzene         | U              |               | 0.164       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,2,4-Trichlorobenzene         | U              |               | 0.355       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,1,1-Trichloroethane          | U              |               | 0.0940      | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,1,2-Trichloroethane          | U              |               | 0.186       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| Trichloroethene                | 8.52           | J J           | 7.65        | 25.0        | 50       | 05/02/2019 11:20        | WG1274830 |
| Trichlorofluoromethane         | U              | UJ JJ0        | 0.130       | 2.50        | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,2,3-Trichloropropane         | U              |               | 0.247       | 2.50        | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,2,4-Trimethylbenzene         | U              |               | 0.123       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,2,3-Trimethylbenzene         | U              |               | 0.0739      | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |
| 1,3,5-Trimethylbenzene         | U              |               | 0.124       | 0.500       | 1        | 04/26/2019 19:47        | WG1272563 |

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

JC 5/13/19



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

| Analyte                   | Result | Qualifier | MDL   | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------|--------|-----------|-------|----------|----------|------------------|---------------------------|
|                           | ug/l   |           | ug/l  | ug/l     |          | date / time      |                           |
| Vinyl acetate             | U      |           | 0.645 | 5.00     | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a> |
| Vinyl chloride            | 622    |           | 5.90  | 25.0     | 50       | 05/02/2019 11:20 | <a href="#">WG1274830</a> |
| Xylenes, Total            | U      |           | 0.316 | 1.50     | 1        | 04/26/2019 19:47 | <a href="#">WG1272563</a> |
| (S) Toluene-d8            | 101    |           |       | 80.0-120 |          | 04/26/2019 19:47 | <a href="#">WG1272563</a> |
| (S) Toluene-d8            | 106    |           |       | 80.0-120 |          | 05/02/2019 11:20 | <a href="#">WG1274830</a> |
| (S) 4-Bromofluorobenzene  | 106    |           |       | 77.0-126 |          | 04/26/2019 19:47 | <a href="#">WG1272563</a> |
| (S) 4-Bromofluorobenzene  | 100    |           |       | 77.0-126 |          | 05/02/2019 11:20 | <a href="#">WG1274830</a> |
| (S) 1,2-Dichloroethane-d4 | 92.8   |           |       | 70.0-130 |          | 04/26/2019 19:47 | <a href="#">WG1272563</a> |
| (S) 1,2-Dichloroethane-d4 | 91.4   |           |       | 70.0-130 |          | 05/02/2019 11:20 | <a href="#">WG1274830</a> |

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

Sample Narrative:

L1092440-06 WG1272563, WG1274830: Not all compounds reportable at lower dilution.

L1092440-06 WG1272563, WG1274830: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

JC 5/13/19



Collected date/time: 04/24/19 00:00

L1092440

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 05/02/2019 15:18 | <a href="#">WG1275218</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.4   |           |      | 78.0-120 |          | 05/02/2019 15:18 | <a href="#">WG1275218</a> |

- 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                     | 1.58   | <u>J JO</u>   | 1.05   | 25.0  | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Acrylonitrile               | U      |               | 0.873  | 5.00  | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Benzene                     | U      |               | 0.0896 | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Bromobenzene                | U      |               | 0.133  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Bromodichloromethane        | U      |               | 0.0800 | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Bromochloromethane          | U      |               | 0.145  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Bromoform                   | U      |               | 0.186  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Bromomethane                | U      | <u>UJ JO</u>  | 0.157  | 2.50  | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| n-Butylbenzene              | U      |               | 0.143  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| sec-Butylbenzene            | U      |               | 0.134  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| tert-Butylbenzene           | U      |               | 0.183  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Carbon disulfide            | U      |               | 0.101  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Carbon tetrachloride        | U      |               | 0.159  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Chlorobenzene               | U      |               | 0.140  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Chlorodibromomethane        | U      |               | 0.128  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Chloroethane                | U      | <u>UJ JO</u>  | 0.141  | 2.50  | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Chloroform                  | U      |               | 0.0860 | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Chloromethane               | U      |               | 0.153  | 1.25  | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 2-Chlorotoluene             | U      |               | 0.111  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 4-Chlorotoluene             | U      |               | 0.0972 | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 1,2-Dibromo-3-Chloropropane | U      |               | 0.325  | 2.50  | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 1,2-Dibromoethane           | U      |               | 0.193  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Dibromomethane              | U      |               | 0.117  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 1,2-Dichlorobenzene         | U      |               | 0.101  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 1,3-Dichlorobenzene         | U      |               | 0.130  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 1,4-Dichlorobenzene         | U      |               | 0.121  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Dichlorodifluoromethane     | U      |               | 0.127  | 2.50  | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 1,1-Dichloroethane          | U      |               | 0.114  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 1,2-Dichloroethane          | U      |               | 0.108  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 1,1-Dichloroethene          | U      |               | 0.188  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| cis-1,2-Dichloroethene      | U      |               | 0.0933 | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| trans-1,2-Dichloroethene    | U      |               | 0.152  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 1,2-Dichloropropane         | U      |               | 0.190  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 1,1-Dichloropropene         | U      |               | 0.128  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 1,3-Dichloropropane         | U      |               | 0.147  | 1.00  | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| cis-1,3-Dichloropropene     | U      |               | 0.0976 | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| trans-1,3-Dichloropropene   | U      |               | 0.222  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| trans-1,4-Dichloro-2-butene | U      |               | 0.257  | 5.00  | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 2,2-Dichloropropane         | U      |               | 0.0929 | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Di-isopropyl ether          | U      |               | 0.0924 | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Ethylbenzene                | U      |               | 0.158  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Hexachloro-1,3-butadiene    | U      |               | 0.157  | 1.00  | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 2-Hexanone                  | U      | <del>J3</del> | 0.757  | 5.00  | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| n-Hexane                    | U      |               | 0.305  | 5.00  | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Iodomethane                 | U      |               | 0.377  | 10.0  | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Isopropylbenzene            | U      |               | 0.126  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| p-Isopropyltoluene          | U      |               | 0.138  | 0.500 | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 2-Butanone (MEK)            | U      |               | 1.28   | 5.00  | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |

JC 5/13/19





Collected date/time: 04/24/19 00:00

L1092440

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

| Analyte                        | Result | Qualifier | MDL    | RDL      | Dilution | Analysis         | Batch                     |
|--------------------------------|--------|-----------|--------|----------|----------|------------------|---------------------------|
|                                | ug/l   |           | ug/l   | ug/l     |          | date / time      |                           |
| Methylene Chloride             | U      |           | 1.07   | 2.50     | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 4-Methyl-2-pentanone (MIBK)    | U      |           | 0.823  | 5.00     | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Methyl tert-butyl ether        | U      |           | 0.102  | 0.500    | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Naphthalene                    | U      |           | 0.174  | 2.50     | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| n-Propylbenzene                | U      |           | 0.162  | 0.500    | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Styrene                        | U      |           | 0.117  | 0.500    | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 1,1,1,2-Tetrachloroethane      | U      |           | 0.120  | 0.500    | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 1,1,2,2-Tetrachloroethane      | U      |           | 0.130  | 0.500    | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 1,1,2-Trichlorotrifluoroethane | U      |           | 0.164  | 0.500    | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Tetrachloroethene              | U      |           | 0.199  | 0.500    | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Toluene                        | U      |           | 0.412  | 0.500    | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 1,2,3-Trichlorobenzene         | U      |           | 0.164  | 0.500    | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 1,2,4-Trichlorobenzene         | U      |           | 0.355  | 0.500    | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 1,1,1-Trichloroethane          | U      |           | 0.0940 | 0.500    | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 1,1,2-Trichloroethane          | U      |           | 0.186  | 0.500    | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Trichloroethene                | U      |           | 0.153  | 0.500    | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Trichlorofluoromethane         | U      | UJ JO     | 0.130  | 2.50     | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 1,2,3-Trichloropropane         | U      |           | 0.247  | 2.50     | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 1,2,4-Trimethylbenzene         | U      |           | 0.123  | 0.500    | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 1,2,3-Trimethylbenzene         | U      |           | 0.0739 | 0.500    | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| 1,3,5-Trimethylbenzene         | U      |           | 0.124  | 0.500    | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Vinyl acetate                  | U      |           | 0.645  | 5.00     | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Vinyl chloride                 | U      | UJ JO     | 0.118  | 0.500    | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| Xylenes, Total                 | U      |           | 0.316  | 1.50     | 1        | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| (S) Toluene-d8                 | 97.1   |           |        | 80.0-120 |          | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| (S) 4-Bromofluorobenzene       | 101    |           |        | 77.0-126 |          | 04/26/2019 17:27 | <a href="#">WG1272563</a> |
| (S) 1,2-Dichloroethane-d4      | 90.1   |           |        | 70.0-130 |          | 04/26/2019 17:27 | <a href="#">WG1272563</a> |

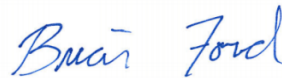
- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 5/13/19

## PES Environmental, Inc.- WA

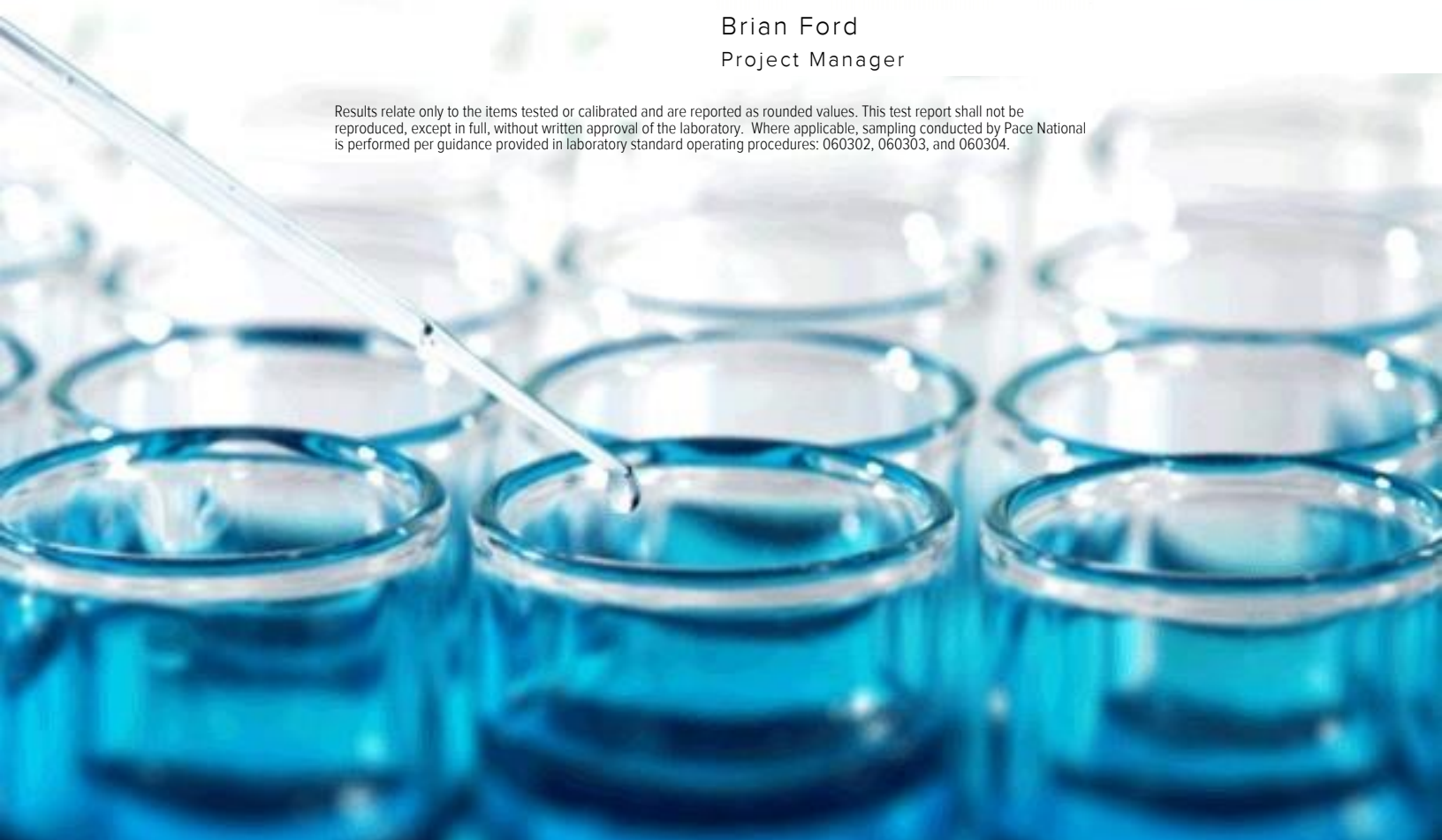
Sample Delivery Group: L1092880  
Samples Received: 04/26/2019  
Project Number: AMERICAN LINEN  
Description: American Linen  
Site: 1413.001.05.601  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

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.





|  |           |                       |
|--|-----------|-----------------------|
| <b>Cp: Cover Page</b>                              | <b>1</b>  | <b><sup>1</sup>Cp</b> |
| <b>Tc: Table of Contents</b>                       | <b>2</b>  | <b><sup>2</sup>Tc</b> |
| <b>Ss: Sample Summary</b>                          | <b>3</b>  | <b><sup>3</sup>Ss</b> |
| <b>Cn: Case Narrative</b>                          | <b>4</b>  | <b><sup>4</sup>Cn</b> |
| <b>Sr: Sample Results</b>                          | <b>5</b>  | <b><sup>5</sup>Sr</b> |
| MW-158-042519 L1092880-01                          | 5         |                       |
| W-MW-01-042519 L1092880-02                         | 8         |                       |
| R-MW6-042519 L1092880-03                           | 11        |                       |
| TRIPBLANK-042519 L1092880-04                       | 13        |                       |
| <b>Qc: Quality Control Summary</b>                 | <b>15</b> | <b><sup>6</sup>Qc</b> |
| Wet Chemistry by Method 2320 B-2011                | 15        |                       |
| Wet Chemistry by Method 9056A                      | 16        |                       |
| Wet Chemistry by Method 9060A                      | 18        |                       |
| Metals (ICPMS) by Method 6020B                     | 19        |                       |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | 20        |                       |
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| Volatile Organic Compounds (GC/MS) by Method 8260C | 22        |                       |
| <b>Gl: Glossary of Terms</b>                       | <b>26</b> | <b><sup>7</sup>Gl</b> |
| <b>Al: Accreditations &amp; Locations</b>          | <b>27</b> | <b><sup>8</sup>Al</b> |
| <b>Sc: Sample Chain of Custody</b>                 | <b>28</b> | <b><sup>9</sup>Sc</b> |

# SAMPLE SUMMARY



## MW-158-042519 L1092880-01 GW

Collected by Ben Hecht  
Collected date/time 04/25/19 09:55  
Received date/time 04/26/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011                | WG1274856 | 1        | 05/03/19 21:09        | 05/03/19 21:09     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1272235 | 1        | 04/26/19 22:31        | 04/26/19 22:31     | ELN     | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                      | WG1273394 | 2        | 04/29/19 17:13        | 04/29/19 17:13     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1271844 | 1        | 04/30/19 09:36        | 05/07/19 20:31     | LD      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1274492 | 1        | 05/01/19 14:16        | 05/01/19 14:16     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1275530 | 1        | 05/03/19 13:37        | 05/03/19 13:37     | DAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1272563 | 1        | 04/26/19 23:06        | 04/26/19 23:06     | BMB     | Mt. Juliet, TN |

1  
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

9  
Sc

## W-MW-01-042519 L1092880-02 GW

Collected by Ben Hecht  
Collected date/time 04/25/19 12:15  
Received date/time 04/26/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011                | WG1274856 | 1        | 05/03/19 21:16        | 05/03/19 21:16     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1272235 | 1        | 04/26/19 23:00        | 04/26/19 23:00     | ELN     | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                      | WG1273394 | 1        | 04/29/19 17:25        | 04/29/19 17:25     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1271844 | 1        | 04/30/19 09:36        | 05/07/19 23:03     | LD      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1274492 | 1        | 05/01/19 14:37        | 05/01/19 14:37     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1275530 | 1        | 05/03/19 13:39        | 05/03/19 13:39     | DAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1272563 | 1        | 04/26/19 23:26        | 04/26/19 23:26     | BMB     | Mt. Juliet, TN |

## R-MW6-042519 L1092880-03 GW

Collected by Ben Hecht  
Collected date/time 04/25/19 13:20  
Received date/time 04/26/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1274492 | 1        | 05/01/19 14:57        | 05/01/19 14:57     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1272563 | 1        | 04/26/19 23:46        | 04/26/19 23:46     | BMB     | Mt. Juliet, TN |

## TRIPBLANK-042519 L1092880-04 GW

Collected by Ben Hecht  
Collected date/time 04/25/19 00:00  
Received date/time 04/26/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1274492 | 1        | 05/01/19 13:14        | 05/01/19 13:14     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1272563 | 1        | 04/26/19 17:47        | 04/26/19 17:47     | BMB     | 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

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 345000 |           | 2710 | 20000 | 1        | 05/03/2019 21:09 | <a href="#">WG1274856</a> |

Sample Narrative:

L1092880-01 WG1274856: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 26700  |           | 51.9 | 1000 | 1        | 04/26/2019 22:31 | <a href="#">WG1272235</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/26/2019 22:31 | <a href="#">WG1272235</a> |
| Sulfate  | 21100  |           | 77.4 | 5000 | 1        | 04/26/2019 22:31 | <a href="#">WG1272235</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 8110   |           | 204  | 2000 | 2        | 04/29/2019 17:13 | <a href="#">WG1273394</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier            | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|----------------------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |                      | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 12400  | <a href="#">O1 V</a> | 15.0  | 100  | 1        | 05/07/2019 20:31 | <a href="#">WG1271844</a> |
| Manganese | 393    | <a href="#">O1</a>   | 0.250 | 5.00 | 1        | 05/07/2019 20:31 | <a href="#">WG1271844</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 05/01/2019 14:16 | <a href="#">WG1274492</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 93.7   |           |      | 78.0-120 |          | 05/01/2019 14:16 | <a href="#">WG1274492</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 177    |           | 0.287 | 0.678 | 1        | 05/03/2019 13:37 | <a href="#">WG1275530</a> |
| Ethane  | U      |           | 0.296 | 1.29  | 1        | 05/03/2019 13:37 | <a href="#">WG1275530</a> |
| Ethene  | 4.74   |           | 0.422 | 1.27  | 1        | 05/03/2019 13:37 | <a href="#">WG1275530</a> |

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

| Analyte              | Result | Qualifier            | MDL    | RDL   | Dilution | Analysis         | Batch                     |
|----------------------|--------|----------------------|--------|-------|----------|------------------|---------------------------|
|                      | ug/l   |                      | ug/l   | ug/l  |          | date / time      |                           |
| Acetone              | 3.23   | <a href="#">J JO</a> | 1.05   | 25.0  | 1        | 04/26/2019 23:06 | <a href="#">WG1272563</a> |
| Acrylonitrile        | U      |                      | 0.873  | 5.00  | 1        | 04/26/2019 23:06 | <a href="#">WG1272563</a> |
| Benzene              | U      |                      | 0.0896 | 0.500 | 1        | 04/26/2019 23:06 | <a href="#">WG1272563</a> |
| Bromobenzene         | U      |                      | 0.133  | 0.500 | 1        | 04/26/2019 23:06 | <a href="#">WG1272563</a> |
| Bromodichloromethane | U      |                      | 0.0800 | 0.500 | 1        | 04/26/2019 23:06 | <a href="#">WG1272563</a> |
| Bromochloromethane   | U      |                      | 0.145  | 0.500 | 1        | 04/26/2019 23:06 | <a href="#">WG1272563</a> |
| Bromoform            | U      |                      | 0.186  | 0.500 | 1        | 04/26/2019 23:06 | <a href="#">WG1272563</a> |
| Bromomethane         | U      | <a href="#">JO</a>   | 0.157  | 2.50  | 1        | 04/26/2019 23:06 | <a href="#">WG1272563</a> |
| n-Butylbenzene       | U      |                      | 0.143  | 0.500 | 1        | 04/26/2019 23:06 | <a href="#">WG1272563</a> |
| sec-Butylbenzene     | U      |                      | 0.134  | 0.500 | 1        | 04/26/2019 23:06 | <a href="#">WG1272563</a> |
| tert-Butylbenzene    | U      |                      | 0.183  | 0.500 | 1        | 04/26/2019 23:06 | <a href="#">WG1272563</a> |
| Carbon disulfide     | 0.351  | <a href="#">J JO</a> | 0.101  | 0.500 | 1        | 04/26/2019 23:06 | <a href="#">WG1272563</a> |
| Carbon tetrachloride | U      |                      | 0.159  | 0.500 | 1        | 04/26/2019 23:06 | <a href="#">WG1272563</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| Chloroethane                   | U              | J0        | 0.141       | 2.50        | 1        | 04/26/2019 23:06        | WG1272563 |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 04/26/2019 23:06        | WG1272563 |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 04/26/2019 23:06        | WG1272563 |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 04/26/2019 23:06        | WG1272563 |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| 1,1-Dichloroethene             | U              |           | 0.188       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| cis-1,2-Dichloroethene         | 0.974          |           | 0.0933      | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| trans-1,2-Dichloroethene       | U              |           | 0.152       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 04/26/2019 23:06        | WG1272563 |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 04/26/2019 23:06        | WG1272563 |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 04/26/2019 23:06        | WG1272563 |
| 2-Hexanone                     | U              | J3        | 0.757       | 5.00        | 1        | 04/26/2019 23:06        | WG1272563 |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 04/26/2019 23:06        | WG1272563 |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 04/26/2019 23:06        | WG1272563 |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 04/26/2019 23:06        | WG1272563 |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/26/2019 23:06        | WG1272563 |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/26/2019 23:06        | WG1272563 |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/26/2019 23:06        | WG1272563 |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| Trichloroethene                | 0.240          | J         | 0.153       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| Trichlorofluoromethane         | U              | J0        | 0.130       | 2.50        | 1        | 04/26/2019 23:06        | WG1272563 |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/26/2019 23:06        | WG1272563 |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/26/2019 23:06        | WG1272563 |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|----------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate                    | U              |           | 0.645       | 5.00        | 1        | 04/26/2019 23:06        | <a href="#">WG1272563</a> |
| Vinyl chloride                   | 3.08           | <u>JO</u> | 0.118       | 0.500       | 1        | 04/26/2019 23:06        | <a href="#">WG1272563</a> |
| Xylenes, Total                   | U              |           | 0.316       | 1.50        | 1        | 04/26/2019 23:06        | <a href="#">WG1272563</a> |
| <i>(S) Toluene-d8</i>            | 100            |           |             | 80.0-120    |          | 04/26/2019 23:06        | <a href="#">WG1272563</a> |
| <i>(S) 4-Bromofluorobenzene</i>  | 104            |           |             | 77.0-126    |          | 04/26/2019 23:06        | <a href="#">WG1272563</a> |
| <i>(S) 1,2-Dichloroethane-d4</i> | 93.0           |           |             | 70.0-130    |          | 04/26/2019 23:06        | <a href="#">WG1272563</a> |

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 | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 246000 |           | 2710 | 20000 | 1        | 05/03/2019 21:16 | <a href="#">WG1274856</a> |

Sample Narrative:

L1092880-02 WG1274856: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 33700  |           | 51.9 | 1000 | 1        | 04/26/2019 23:00 | <a href="#">WG1272235</a> |
| Nitrate  | 397    |           | 22.7 | 100  | 1        | 04/26/2019 23:00 | <a href="#">WG1272235</a> |
| Sulfate  | 80000  |           | 77.4 | 5000 | 1        | 04/26/2019 23:00 | <a href="#">WG1272235</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 5410   |           | 102  | 1000 | 1        | 04/29/2019 17:25 | <a href="#">WG1273394</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 2020   |           | 15.0  | 100  | 1        | 05/07/2019 23:03 | <a href="#">WG1271844</a> |
| Manganese | 330    |           | 0.250 | 5.00 | 1        | 05/07/2019 23:03 | <a href="#">WG1271844</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 05/01/2019 14:37 | <a href="#">WG1274492</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 94.1   |           |      | 78.0-120 |          | 05/01/2019 14:37 | <a href="#">WG1274492</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 10.2   |           | 0.287 | 0.678 | 1        | 05/03/2019 13:39 | <a href="#">WG1275530</a> |
| Ethane  | U      |           | 0.296 | 1.29  | 1        | 05/03/2019 13:39 | <a href="#">WG1275530</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 05/03/2019 13:39 | <a href="#">WG1275530</a> |

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

| Analyte              | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch                     |
|----------------------|--------|-----------|--------|-------|----------|------------------|---------------------------|
|                      | ug/l   |           | ug/l   | ug/l  |          | date / time      |                           |
| Acetone              | 2.03   | J JO      | 1.05   | 25.0  | 1        | 04/26/2019 23:26 | <a href="#">WG1272563</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 04/26/2019 23:26 | <a href="#">WG1272563</a> |
| Benzene              | U      |           | 0.0896 | 0.500 | 1        | 04/26/2019 23:26 | <a href="#">WG1272563</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 04/26/2019 23:26 | <a href="#">WG1272563</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 04/26/2019 23:26 | <a href="#">WG1272563</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 04/26/2019 23:26 | <a href="#">WG1272563</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 04/26/2019 23:26 | <a href="#">WG1272563</a> |
| Bromomethane         | U      | JO        | 0.157  | 2.50  | 1        | 04/26/2019 23:26 | <a href="#">WG1272563</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 04/26/2019 23:26 | <a href="#">WG1272563</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 04/26/2019 23:26 | <a href="#">WG1272563</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 04/26/2019 23:26 | <a href="#">WG1272563</a> |
| Carbon disulfide     | U      |           | 0.101  | 0.500 | 1        | 04/26/2019 23:26 | <a href="#">WG1272563</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 04/26/2019 23:26 | <a href="#">WG1272563</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/25/19 12:15

L1092880

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| Chloroethane                   | U              | <u>JO</u> | 0.141       | 2.50        | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 1,1-Dichloroethene             | U              |           | 0.188       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| cis-1,2-Dichloroethene         | 0.572          |           | 0.0933      | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| trans-1,2-Dichloroethene       | U              |           | 0.152       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 2-Hexanone                     | U              | <u>J3</u> | 0.757       | 5.00        | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| Naphthalene                    | 0.211          | <u>J</u>  | 0.174       | 2.50        | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| Trichloroethene                | 0.373          | <u>J</u>  | 0.153       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|----------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate                    | U              |           | 0.645       | 5.00        | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| Vinyl chloride                   | 6.61           | <u>JO</u> | 0.118       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| Xylenes, Total                   | U              |           | 0.316       | 1.50        | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| <i>(S) Toluene-d8</i>            | 98.9           |           |             | 80.0-120    |          | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| <i>(S) 4-Bromofluorobenzene</i>  | 105            |           |             | 77.0-126    |          | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| <i>(S) 1,2-Dichloroethane-d4</i> | 93.8           |           |             | 70.0-130    |          | 04/26/2019 23:26        | <a href="#">WG1272563</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | U              |           | 31.6        | 100         | 1        | 05/01/2019 14:57        | <a href="#">WG1274492</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 93.6           |           |             | 78.0-120    |          | 05/01/2019 14:57        | <a href="#">WG1274492</a> |

- 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<br>ug/l | Qualifier   | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-------------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | 2.91           | <u>J JO</u> | 1.05        | 25.0        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Acrylonitrile               | U              |             | 0.873       | 5.00        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Benzene                     | U              |             | 0.0896      | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Bromobenzene                | U              |             | 0.133       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Bromodichloromethane        | U              |             | 0.0800      | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Bromochloromethane          | U              |             | 0.145       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Bromoform                   | U              |             | 0.186       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Bromomethane                | U              | <u>JO</u>   | 0.157       | 2.50        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| n-Butylbenzene              | U              |             | 0.143       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| sec-Butylbenzene            | U              |             | 0.134       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| tert-Butylbenzene           | U              |             | 0.183       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Carbon disulfide            | U              |             | 0.101       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Carbon tetrachloride        | U              |             | 0.159       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Chlorobenzene               | U              |             | 0.140       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Chlorodibromomethane        | U              |             | 0.128       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Chloroethane                | U              | <u>JO</u>   | 0.141       | 2.50        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Chloroform                  | U              |             | 0.0860      | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Chloromethane               | U              |             | 0.153       | 1.25        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 2-Chlorotoluene             | U              |             | 0.111       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 4-Chlorotoluene             | U              |             | 0.0972      | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,2-Dibromo-3-Chloropropane | U              |             | 0.325       | 2.50        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,2-Dibromoethane           | U              |             | 0.193       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Dibromomethane              | U              |             | 0.117       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,2-Dichlorobenzene         | U              |             | 0.101       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,3-Dichlorobenzene         | U              |             | 0.130       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,4-Dichlorobenzene         | U              |             | 0.121       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Dichlorodifluoromethane     | U              |             | 0.127       | 2.50        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,1-Dichloroethane          | U              |             | 0.114       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,2-Dichloroethane          | U              |             | 0.108       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,1-Dichloroethene          | U              |             | 0.188       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| cis-1,2-Dichloroethene      | 11.8           |             | 0.0933      | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| trans-1,2-Dichloroethene    | 0.168          | <u>J</u>    | 0.152       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,2-Dichloropropane         | U              |             | 0.190       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,1-Dichloropropene         | U              |             | 0.128       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,3-Dichloropropane         | U              |             | 0.147       | 1.00        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| cis-1,3-Dichloropropene     | U              |             | 0.0976      | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| trans-1,3-Dichloropropene   | U              |             | 0.222       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| trans-1,4-Dichloro-2-butene | U              |             | 0.257       | 5.00        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 2,2-Dichloropropane         | U              |             | 0.0929      | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Di-isopropyl ether          | U              |             | 0.0924      | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Ethylbenzene                | U              |             | 0.158       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Hexachloro-1,3-butadiene    | U              |             | 0.157       | 1.00        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 2-Hexanone                  | U              | <u>J3</u>   | 0.757       | 5.00        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| n-Hexane                    | U              |             | 0.305       | 5.00        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Iodomethane                 | U              |             | 0.377       | 10.0        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Isopropylbenzene            | U              |             | 0.126       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| p-Isopropyltoluene          | U              |             | 0.138       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 2-Butanone (MEK)            | U              |             | 1.28        | 5.00        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |



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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Trichloroethene                | 0.370          | <u>J</u>  | 0.153       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Vinyl acetate                  | U              |           | 0.645       | 5.00        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Vinyl chloride                 | 7.16           | <u>JO</u> | 0.118       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| (S) Toluene-d8                 | 95.8           |           |             | 80.0-120    |          | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| (S) 4-Bromofluorobenzene       | 98.9           |           |             | 77.0-126    |          | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| (S) 1,2-Dichloroethane-d4      | 93.2           |           |             | 70.0-130    |          | 04/26/2019 23:46        | <a href="#">WG1272563</a> |

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



Collected date/time: 04/25/19 00:00

L1092880

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | U              |           | 31.6        | 100         | 1        | 05/01/2019 13:14        | <a href="#">WG1274492</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 94.5           |           |             | 78.0-120    |          | 05/01/2019 13:14        | <a href="#">WG1274492</a> |

1 Cp

2 Tc

3 Ss

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

| Analyte                     | Result<br>ug/l | Qualifier   | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-------------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | 2.62           | <u>J JO</u> | 1.05        | 25.0        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Acrylonitrile               | U              |             | 0.873       | 5.00        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Benzene                     | U              |             | 0.0896      | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Bromobenzene                | U              |             | 0.133       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Bromodichloromethane        | U              |             | 0.0800      | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Bromochloromethane          | U              |             | 0.145       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Bromoform                   | U              |             | 0.186       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Bromomethane                | U              | <u>JO</u>   | 0.157       | 2.50        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| n-Butylbenzene              | U              |             | 0.143       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| sec-Butylbenzene            | U              |             | 0.134       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| tert-Butylbenzene           | U              |             | 0.183       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Carbon disulfide            | U              |             | 0.101       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Carbon tetrachloride        | U              |             | 0.159       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Chlorobenzene               | U              |             | 0.140       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Chlorodibromomethane        | U              |             | 0.128       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Chloroethane                | U              | <u>JO</u>   | 0.141       | 2.50        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Chloroform                  | U              |             | 0.0860      | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Chloromethane               | U              |             | 0.153       | 1.25        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 2-Chlorotoluene             | U              |             | 0.111       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 4-Chlorotoluene             | U              |             | 0.0972      | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,2-Dibromo-3-Chloropropane | U              |             | 0.325       | 2.50        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,2-Dibromoethane           | U              |             | 0.193       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Dibromomethane              | U              |             | 0.117       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,2-Dichlorobenzene         | U              |             | 0.101       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,3-Dichlorobenzene         | U              |             | 0.130       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,4-Dichlorobenzene         | U              |             | 0.121       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Dichlorodifluoromethane     | U              |             | 0.127       | 2.50        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,1-Dichloroethane          | U              |             | 0.114       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,2-Dichloroethane          | U              |             | 0.108       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,1-Dichloroethene          | U              |             | 0.188       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| cis-1,2-Dichloroethene      | U              |             | 0.0933      | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| trans-1,2-Dichloroethene    | U              |             | 0.152       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,2-Dichloropropane         | U              |             | 0.190       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,1-Dichloropropene         | U              |             | 0.128       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,3-Dichloropropane         | U              |             | 0.147       | 1.00        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| cis-1,3-Dichloropropene     | U              |             | 0.0976      | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| trans-1,3-Dichloropropene   | U              |             | 0.222       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| trans-1,4-Dichloro-2-butene | U              |             | 0.257       | 5.00        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 2,2-Dichloropropane         | U              |             | 0.0929      | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Di-isopropyl ether          | U              |             | 0.0924      | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Ethylbenzene                | U              |             | 0.158       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Hexachloro-1,3-butadiene    | U              |             | 0.157       | 1.00        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 2-Hexanone                  | U              | <u>J3</u>   | 0.757       | 5.00        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| n-Hexane                    | U              |             | 0.305       | 5.00        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Iodomethane                 | U              |             | 0.377       | 10.0        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Isopropylbenzene            | U              |             | 0.126       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| p-Isopropyltoluene          | U              |             | 0.138       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 2-Butanone (MEK)            | U              |             | 1.28        | 5.00        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/25/19 00:00

L1092880

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Vinyl acetate                  | U              |           | 0.645       | 5.00        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Vinyl chloride                 | U              | <u>JO</u> | 0.118       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| (S) Toluene-d8                 | 101            |           |             | 80.0-120    |          | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| (S) 4-Bromofluorobenzene       | 106            |           |             | 77.0-126    |          | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| (S) 1,2-Dichloroethane-d4      | 92.9           |           |             | 70.0-130    |          | 04/26/2019 17:47        | <a href="#">WG1272563</a> |

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



Method Blank (MB)

(MB) R3408070-1 05/03/19 17:39

| Analyte    | MB Result | MB Qualifier | MB MDL | MB RDL |
|------------|-----------|--------------|--------|--------|
| Alkalinity | 3100      | ↓            | 2710   | 20000  |

Sample Narrative:

BLANK: Endpoint pH 4.5

L1092557-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1092557-01 05/03/19 18:13 • (DUP) R3408070-3 05/03/19 18:20

| Analyte    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------|-----------------|------------|----------|---------|---------------|----------------|
| Alkalinity | 39900           | 39800      | 1        | 0.183   |               | 20             |

Sample Narrative:

OS: Endpoint pH 4.5 HEADSPACE

DUP: Endpoint pH 4.5

L1093120-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1093120-03 05/03/19 21:50 • (DUP) R3408070-6 05/03/19 21:57

| Analyte    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------|-----------------|------------|----------|---------|---------------|----------------|
| Alkalinity | 128000          | 128000     | 1        | 0.0395  |               | 20             |

Sample Narrative:

OS: Endpoint pH 4.5 HEADSPACE

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3408070-5 05/03/19 19:13

| Analyte    | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|------------|--------------|------------|----------|-------------|---------------|
| Alkalinity | 100000       | 97800      | 97.8     | 85.0-115    |               |

Sample Narrative:

LCS: Endpoint pH 4.5

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc





Method Blank (MB)

(MB) R3406015-1 04/26/19 11:01

| Analyte  | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------|-----------|--------------|--------|--------|
| Chloride | U         |              | 51.9   | 1000   |
| Nitrate  | U         |              | 22.7   | 100    |
| Sulfate  | U         |              | 77.4   | 5000   |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1091939-45 Original Sample (OS) • Duplicate (DUP)

(OS) L1091939-45 04/26/19 13:52 • (DUP) R3406015-3 04/26/19 14:06

| Analyte  | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
| Chloride | 10100           | 10100      | 1        | 0.211   |               | 15             |
| Nitrate  | 42.3            | 42.1       | 1        | 0.474   | U             | 15             |
| Sulfate  | 1630            | 1630       | 1        | 0.227   | U             | 15             |

L1092773-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1092773-01 04/26/19 19:23 • (DUP) R3406015-6 04/26/19 19:38

| Analyte  | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
| Chloride | 11100           | 11100      | 1        | 0.0999  |               | 15             |
| Nitrate  | U               | 0.000      | 1        | 0.000   |               | 15             |
| Sulfate  | 31000           | 31000      | 1        | 0.0523  |               | 15             |

Laboratory Control Sample (LCS)

(LCS) R3406015-2 04/26/19 11:15

| Analyte  | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------|--------------|------------|----------|-------------|---------------|
| Chloride | 40000        | 40200      | 101      | 80.0-120    |               |
| Nitrate  | 8000         | 8120       | 102      | 80.0-120    |               |
| Sulfate  | 40000        | 41100      | 103      | 80.0-120    |               |



L1091939-45 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1091939-45 04/26/19 13:52 • (MS) R3406015-4 04/26/19 14:21 • (MSD) R3406015-5 04/26/19 14:35

| Analyte  | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MSD Result<br>ug/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Chloride | 50000                | 10100                   | 59800             | 59800              | 99.4         | 99.5          | 1        | 80.0-120         |              |               | 0.0818   | 15              |
| Nitrate  | 5000                 | 42.3                    | 4870              | 4870               | 96.5         | 96.5          | 1        | 80.0-120         |              |               | 0.00616  | 15              |
| Sulfate  | 50000                | 1630                    | 50800             | 51000              | 98.3         | 98.8          | 1        | 80.0-120         |              |               | 0.441    | 15              |

L1092773-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1092773-01 04/26/19 19:23 • (MS) R3406015-7 04/26/19 19:52

| Analyte  | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MS Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier |
|----------|----------------------|-------------------------|-------------------|--------------|----------|------------------|--------------|
| Chloride | 50000                | 11100                   | 61300             | 100          | 1        | 80.0-120         |              |
| Nitrate  | 5000                 | U                       | 4690              | 93.7         | 1        | 80.0-120         |              |
| Sulfate  | 50000                | 31000                   | 78600             | 95.2         | 1        | 80.0-120         |              |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3406585-1 04/29/19 11:52

| Analyte                    | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------------------|-----------|--------------|--------|--------|
| TOC (Total Organic Carbon) | 284       | ↓            | 102    | 1000   |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1092770-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1092770-01 04/29/19 13:19 • (DUP) R3406585-3 04/29/19 13:32

| Analyte                    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------------------------|-----------------|------------|----------|---------|---------------|----------------|
| TOC (Total Organic Carbon) | 8240            | 8150       | 1        | 1.15    |               | 20             |

L1093209-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1093209-03 04/29/19 18:04 • (DUP) R3406585-6 04/29/19 18:17

| Analyte                    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------------------------|-----------------|------------|----------|---------|---------------|----------------|
| TOC (Total Organic Carbon) | 4670            | 4640       | 1        | 0.623   |               | 20             |

Laboratory Control Sample (LCS)

(LCS) R3406585-2 04/29/19 12:30

| Analyte                    | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------------------------|--------------|------------|----------|-------------|---------------|
| TOC (Total Organic Carbon) | 75000        | 77000      | 103      | 85.0-115    |               |

L1092865-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1092865-02 04/29/19 16:29 • (MS) R3406585-4 04/29/19 16:45 • (MSD) R3406585-5 04/29/19 17:00

| Analyte                    | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD   | RPD Limits |
|----------------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| TOC (Total Organic Carbon) | 50000        | 2150            | 50400     | 50000      | 96.5    | 95.7     | 1        | 80.0-120    |              |               | 0.836 | 20         |

L1093242-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1093242-06 04/29/19 20:23 • (MS) R3406585-7 04/29/19 20:39 • (MSD) R3406585-8 04/29/19 20:55

| Analyte                    | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD   | RPD Limits |
|----------------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| TOC (Total Organic Carbon) | 50000        | 5190            | 51100     | 51100      | 91.8    | 91.9     | 1        | 80.0-120    |              |               | 0.137 | 20         |



Method Blank (MB)

(MB) R3409057-1 05/07/19 20:17

| Analyte   | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|-----------|-------------------|--------------|----------------|----------------|
| Iron      | 87.3              | ↓            | 15.0           | 100            |
| Manganese | 1.84              | ↓            | 0.250          | 5.00           |

1 Cp

2 Tc

3 Ss

4 Cn

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

(LCS) R3409057-2 05/07/19 20:22 • (LCSD) R3409057-3 05/07/19 20:26

| Analyte   | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-----------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Iron      | 500                  | 449                | 441                 | 89.8          | 88.1           | 80.0-120         |               |                | 1.93     | 20              |
| Manganese | 50.0                 | 45.5               | 44.5                | 91.0          | 89.1           | 80.0-120         |               |                | 2.10     | 20              |

5 Sr

6 Qc

L1092880-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1092880-01 05/07/19 20:31 • (MS) R3409057-5 05/07/19 20:40 • (MSD) R3409057-6 05/07/19 20:45

| Analyte   | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MSD Result<br>ug/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-----------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Iron      | 500                  | 12400                   | 13900             | 13700              | 286          | 251           | 1        | 75.0-125         | ↓            | ↓             | 1.26     | 20              |
| Manganese | 50.0                 | 393                     | 440               | 449                | 93.4         | 111           | 1        | 75.0-125         |              |               | 2.01     | 20              |

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3407469-3 05/01/19 12:30

| Analyte                            | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| Gasoline Range Organics-NWTPH      | U                 |              | 31.6           | 100            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 93.6              |              |                | 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) R3407469-1 05/01/19 11:25 • (LCSD) R3407469-2 05/01/19 11:46

| Analyte                            | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Gasoline Range Organics-NWTPH      | 5500                 | 5370               | 5440                | 97.6          | 98.9           | 70.0-124         |               |                | 1.33     | 20              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                    |                     | 104           | 105            | 78.0-120         |               |                |          |                 |

L1092880-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1092880-01 05/01/19 14:16 • (MS) R3407469-4 05/01/19 19:05 • (MSD) R3407469-5 05/01/19 19:25

| Analyte                            | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MSD Result<br>ug/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Gasoline Range Organics-NWTPH      | 5500                 | U                       | 6290              | 5510               | 114          | 100           | 1        | 10.0-155         |              |               | 13.2     | 21              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                         |                   |                    | 109          | 107           |          | 78.0-120         |              |               |          |                 |



Method Blank (MB)

(MB) R3407928-1 05/03/19 11:39

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------|-----------|--------------|--------|--------|
|         | ug/l      |              | ug/l   | ug/l   |
| Methane | U         |              | 0.287  | 0.678  |
| Ethane  | U         |              | 0.296  | 1.29   |
| Ethene  | U         |              | 0.422  | 1.27   |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1092824-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1092824-01 05/03/19 11:46 • (DUP) R3407928-2 05/03/19 12:57

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
|         | 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             |

L1092854-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1092854-07 05/03/19 13:27 • (DUP) R3407928-3 05/03/19 13:43

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
|         | ug/l            | ug/l       |          | %       |               | %              |
| Methane | 4640            | 4630       | 1        | 0.284   |               | 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) R3407928-4 05/03/19 13:48 • (LCSD) R3407928-5 05/03/19 13:52

| 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        | %        | %         | %           |               |                | %    | %          |
| Methane | 67.8         | 75.9       | 74.2        | 112      | 109       | 85.0-115    |               |                | 2.30 | 20         |
| Ethane  | 129          | 112        | 111         | 86.9     | 85.8      | 85.0-115    |               |                | 1.24 | 20         |
| Ethene  | 127          | 112        | 111         | 88.2     | 87.1      | 85.0-115    |               |                | 1.21 | 20         |



Method Blank (MB)

(MB) R3407258-3 04/26/19 16:26

| Analyte                     | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>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-1,2-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           |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3407258-3 04/26/19 16:26

| Analyte                        | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>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              | 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                 | 97.5              |              |                | 80.0-120       |
| (S) 4-Bromofluorobenzene       | 104               |              |                | 77.0-126       |
| (S) 1,2-Dichloroethane-d4      | 91.0              |              |                | 70.0-130       |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





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

(LCS) R3407258-1 04/26/19 15:27 • (LCSD) R3407258-2 04/26/19 15:46

| Analyte                     | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD<br>% | RPD Limits<br>% |
|-----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Bromochloromethane          | 25.0                 | 23.5               | 22.9                | 94.0          | 91.7           | 76.0-122         |                      |                       | 2.40     | 20              |
| Acetone                     | 125                  | 165                | 141                 | 132           | 113            | 19.0-160         |                      |                       | 15.5     | 27              |
| Acrylonitrile               | 125                  | 132                | 149                 | 106           | 119            | 55.0-149         |                      |                       | 11.9     | 20              |
| Benzene                     | 25.0                 | 25.8               | 25.0                | 103           | 100            | 70.0-123         |                      |                       | 3.16     | 20              |
| Bromobenzene                | 25.0                 | 22.9               | 22.3                | 91.5          | 89.2           | 73.0-121         |                      |                       | 2.57     | 20              |
| Bromodichloromethane        | 25.0                 | 22.0               | 21.4                | 88.2          | 85.5           | 75.0-120         |                      |                       | 3.06     | 20              |
| Bromoform                   | 25.0                 | 26.4               | 26.3                | 106           | 105            | 68.0-132         |                      |                       | 0.471    | 20              |
| Bromomethane                | 25.0                 | 18.6               | 18.0                | 74.5          | 72.2           | 10.0-160         |                      |                       | 3.16     | 25              |
| trans-1,4-Dichloro-2-butene | 25.0                 | 21.8               | 22.1                | 87.0          | 88.4           | 33.0-144         |                      |                       | 1.54     | 20              |
| n-Butylbenzene              | 25.0                 | 22.3               | 21.4                | 89.2          | 85.8           | 73.0-125         |                      |                       | 3.98     | 20              |
| sec-Butylbenzene            | 25.0                 | 23.0               | 22.3                | 92.0          | 89.2           | 75.0-125         |                      |                       | 3.08     | 20              |
| tert-Butylbenzene           | 25.0                 | 24.1               | 23.0                | 96.4          | 92.0           | 76.0-124         |                      |                       | 4.65     | 20              |
| Carbon disulfide            | 25.0                 | 32.0               | 26.4                | 128           | 106            | 61.0-128         |                      |                       | 19.2     | 20              |
| 2-Hexanone                  | 125                  | 140                | 173                 | 112           | 138            | 67.0-149         |                      | J3                    | 21.1     | 20              |
| Carbon tetrachloride        | 25.0                 | 24.4               | 24.1                | 97.6          | 96.4           | 68.0-126         |                      |                       | 1.19     | 20              |
| Chlorobenzene               | 25.0                 | 23.9               | 23.3                | 95.5          | 93.1           | 80.0-121         |                      |                       | 2.56     | 20              |
| n-Hexane                    | 25.0                 | 29.3               | 28.0                | 117           | 112            | 57.0-133         |                      |                       | 4.46     | 20              |
| Chlorodibromomethane        | 25.0                 | 23.5               | 23.3                | 94.1          | 93.2           | 77.0-125         |                      |                       | 1.02     | 20              |
| Iodomethane                 | 125                  | 133                | 128                 | 106           | 103            | 33.0-147         |                      |                       | 3.26     | 26              |
| Chloroethane                | 25.0                 | 17.3               | 16.9                | 69.2          | 67.5           | 47.0-150         |                      |                       | 2.56     | 20              |
| Chloroform                  | 25.0                 | 21.7               | 21.0                | 86.9          | 84.0           | 73.0-120         |                      |                       | 3.34     | 20              |
| Chloromethane               | 25.0                 | 26.6               | 25.7                | 106           | 103            | 41.0-142         |                      |                       | 3.39     | 20              |
| 2-Chlorotoluene             | 25.0                 | 22.7               | 22.0                | 90.8          | 88.1           | 76.0-123         |                      |                       | 3.09     | 20              |
| 4-Chlorotoluene             | 25.0                 | 23.0               | 22.3                | 91.9          | 89.0           | 75.0-122         |                      |                       | 3.22     | 20              |
| 1,2-Dibromo-3-Chloropropane | 25.0                 | 26.2               | 26.7                | 105           | 107            | 58.0-134         |                      |                       | 1.93     | 20              |
| 1,2-Dibromoethane           | 25.0                 | 23.3               | 23.7                | 93.3          | 94.7           | 80.0-122         |                      |                       | 1.49     | 20              |
| Dibromomethane              | 25.0                 | 22.2               | 21.7                | 88.7          | 86.8           | 80.0-120         |                      |                       | 2.12     | 20              |
| 1,2-Dichlorobenzene         | 25.0                 | 23.3               | 22.8                | 93.3          | 91.2           | 79.0-121         |                      |                       | 2.30     | 20              |
| 1,3-Dichlorobenzene         | 25.0                 | 23.1               | 22.5                | 92.4          | 90.2           | 79.0-120         |                      |                       | 2.42     | 20              |
| 1,4-Dichlorobenzene         | 25.0                 | 22.1               | 21.7                | 88.4          | 86.9           | 79.0-120         |                      |                       | 1.77     | 20              |
| Dichlorodifluoromethane     | 25.0                 | 31.5               | 29.2                | 126           | 117            | 51.0-149         |                      |                       | 7.67     | 20              |
| 1,1-Dichloroethane          | 25.0                 | 24.1               | 23.3                | 96.5          | 93.3           | 70.0-126         |                      |                       | 3.42     | 20              |
| 1,2-Dichloroethane          | 25.0                 | 20.2               | 19.8                | 81.0          | 79.2           | 70.0-128         |                      |                       | 2.20     | 20              |
| 1,1-Dichloroethene          | 25.0                 | 26.8               | 23.7                | 107           | 94.7           | 71.0-124         |                      |                       | 12.5     | 20              |
| cis-1,2-Dichloroethene      | 25.0                 | 23.8               | 23.2                | 95.2          | 92.9           | 73.0-120         |                      |                       | 2.49     | 20              |
| trans-1,2-Dichloroethene    | 25.0                 | 26.3               | 23.9                | 105           | 95.7           | 73.0-120         |                      |                       | 9.45     | 20              |
| 1,2-Dichloropropane         | 25.0                 | 25.6               | 25.5                | 102           | 102            | 77.0-125         |                      |                       | 0.479    | 20              |
| 1,1-Dichloropropene         | 25.0                 | 25.0               | 23.7                | 100           | 94.7           | 74.0-126         |                      |                       | 5.45     | 20              |
| 1,3-Dichloropropane         | 25.0                 | 24.0               | 23.9                | 96.1          | 95.7           | 80.0-120         |                      |                       | 0.492    | 20              |
| cis-1,3-Dichloropropene     | 25.0                 | 23.8               | 23.3                | 95.1          | 93.2           | 80.0-123         |                      |                       | 2.03     | 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) R3407258-1 04/26/19 15:27 • (LCSD) R3407258-2 04/26/19 15:46

| Analyte                        | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD<br>% | RPD Limits<br>% |
|--------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Vinyl acetate                  | 125                  | 116                | 114                 | 92.8          | 91.1           | 11.0-160         |                      |                       | 1.90     | 20              |
| trans-1,3-Dichloropropene      | 25.0                 | 23.1               | 22.2                | 92.6          | 89.0           | 78.0-124         |                      |                       | 3.97     | 20              |
| 2,2-Dichloropropane            | 25.0                 | 32.0               | 30.3                | 128           | 121            | 58.0-130         |                      |                       | 5.52     | 20              |
| Di-isopropyl ether             | 25.0                 | 27.0               | 26.7                | 108           | 107            | 58.0-138         |                      |                       | 1.11     | 20              |
| Ethylbenzene                   | 25.0                 | 24.7               | 24.1                | 98.9          | 96.2           | 79.0-123         |                      |                       | 2.77     | 20              |
| Hexachloro-1,3-butadiene       | 25.0                 | 28.3               | 28.9                | 113           | 116            | 54.0-138         |                      |                       | 2.00     | 20              |
| Isopropylbenzene               | 25.0                 | 25.5               | 24.8                | 102           | 99.3           | 76.0-127         |                      |                       | 2.77     | 20              |
| p-Isopropyltoluene             | 25.0                 | 23.4               | 22.6                | 93.4          | 90.4           | 76.0-125         |                      |                       | 3.26     | 20              |
| 2-Butanone (MEK)               | 125                  | 144                | 150                 | 116           | 120            | 44.0-160         |                      |                       | 3.60     | 20              |
| Methylene Chloride             | 25.0                 | 27.2               | 23.8                | 109           | 95.3           | 67.0-120         |                      |                       | 13.4     | 20              |
| 4-Methyl-2-pentanone (MIBK)    | 125                  | 135                | 139                 | 108           | 111            | 68.0-142         |                      |                       | 2.35     | 20              |
| Methyl tert-butyl ether        | 25.0                 | 22.9               | 22.8                | 91.4          | 91.3           | 68.0-125         |                      |                       | 0.127    | 20              |
| Naphthalene                    | 25.0                 | 23.5               | 24.1                | 94.2          | 96.6           | 54.0-135         |                      |                       | 2.50     | 20              |
| n-Propylbenzene                | 25.0                 | 22.5               | 21.7                | 90.0          | 86.8           | 77.0-124         |                      |                       | 3.58     | 20              |
| Styrene                        | 25.0                 | 26.9               | 26.7                | 108           | 107            | 73.0-130         |                      |                       | 0.962    | 20              |
| 1,1,1,2-Tetrachloroethane      | 25.0                 | 23.5               | 23.2                | 94.0          | 92.7           | 75.0-125         |                      |                       | 1.47     | 20              |
| 1,1,2,2-Tetrachloroethane      | 25.0                 | 22.1               | 21.6                | 88.4          | 86.4           | 65.0-130         |                      |                       | 2.38     | 20              |
| Tetrachloroethene              | 25.0                 | 26.3               | 25.2                | 105           | 101            | 72.0-132         |                      |                       | 4.03     | 20              |
| Toluene                        | 25.0                 | 25.9               | 25.3                | 103           | 101            | 79.0-120         |                      |                       | 2.21     | 20              |
| 1,1,2-Trichlorotrifluoroethane | 25.0                 | 25.7               | 22.6                | 103           | 90.4           | 69.0-132         |                      |                       | 12.7     | 20              |
| 1,2,3-Trichlorobenzene         | 25.0                 | 22.8               | 24.0                | 91.2          | 95.9           | 50.0-138         |                      |                       | 5.02     | 20              |
| 1,2,4-Trichlorobenzene         | 25.0                 | 24.8               | 24.8                | 99.0          | 99.2           | 57.0-137         |                      |                       | 0.213    | 20              |
| 1,1,1-Trichloroethane          | 25.0                 | 24.3               | 22.7                | 97.4          | 90.9           | 73.0-124         |                      |                       | 6.84     | 20              |
| 1,1,2-Trichloroethane          | 25.0                 | 22.5               | 22.2                | 90.1          | 88.8           | 80.0-120         |                      |                       | 1.49     | 20              |
| Trichloroethene                | 25.0                 | 25.6               | 24.4                | 102           | 97.5           | 78.0-124         |                      |                       | 4.75     | 20              |
| Trichlorofluoromethane         | 25.0                 | 17.0               | 16.2                | 68.0          | 64.9           | 59.0-147         |                      |                       | 4.64     | 20              |
| 1,2,3-Trichloropropane         | 25.0                 | 20.7               | 19.8                | 83.0          | 79.3           | 73.0-130         |                      |                       | 4.50     | 20              |
| 1,2,3-Trimethylbenzene         | 25.0                 | 21.4               | 21.2                | 85.6          | 84.7           | 77.0-120         |                      |                       | 1.01     | 20              |
| 1,2,4-Trimethylbenzene         | 25.0                 | 22.2               | 21.6                | 89.0          | 86.3           | 76.0-121         |                      |                       | 3.10     | 20              |
| 1,3,5-Trimethylbenzene         | 25.0                 | 22.8               | 21.9                | 91.1          | 87.7           | 76.0-122         |                      |                       | 3.74     | 20              |
| Vinyl chloride                 | 25.0                 | 19.3               | 18.1                | 77.2          | 72.4           | 67.0-131         |                      |                       | 6.36     | 20              |
| Xylenes, Total                 | 75.0                 | 74.0               | 73.0                | 98.7          | 97.3           | 79.0-123         |                      |                       | 1.36     | 20              |
| (S) Toluene-d8                 |                      |                    |                     | 102           | 101            | 80.0-120         |                      |                       |          |                 |
| (S) 4-Bromofluorobenzene       |                      |                    |                     | 107           | 107            | 77.0-126         |                      |                       |          |                 |
| (S) 1,2-Dichloroethane-d4      |                      |                    |                     | 90.3          | 89.6           | 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

|    |   |
|----|---|
| 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.  |
| O1 | The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference. |
| 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 <sup>1</sup>     | n/a              |
| Colorado                | TN00003     | New York                    | 11742            |
| Connecticut             | PH-0197     | North Carolina              | Env375           |
| Florida                 | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                 | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>    | 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 <sup>1,6</sup> | 90010       | South Carolina              | 84004            |
| Kentucky <sup>2</sup>   | 16          | South Dakota                | n/a              |
| Louisiana               | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana <sup>1</sup>  | LA180010    | Texas                       | T104704245-18-15 |
| Maine                   | TN0002      | Texas <sup>5</sup>          | 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             |

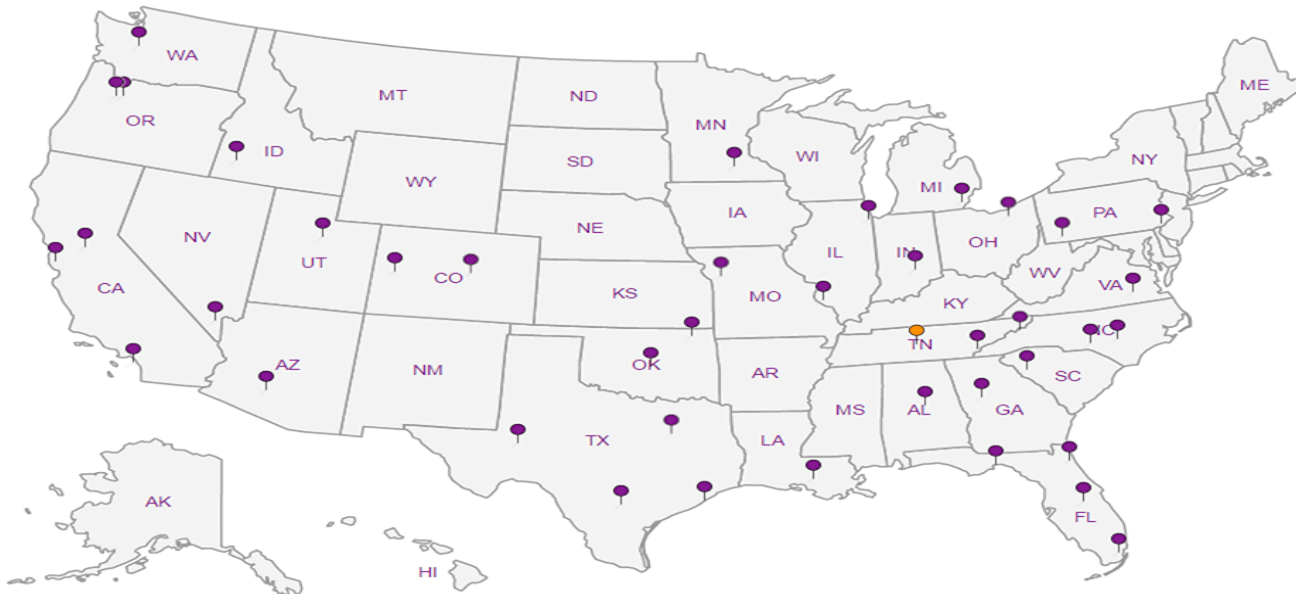
## Third Party Federal Accreditations

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

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl


8 Al

9 Sc

**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;  
 bhaldean@pesenv.com;

Project Description: *American Green*

City/State Collected: *Seattle, WA*

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

Client Project #  
*American Green*

Lab Project #  
**PESENVSWA-ALP**

Collected by (print):  
*Ben Hecht*

Site/Facility ID #  
*1413.001.05.601*

P.O. #

Collected by (signature):  
*[Signature]*  
 Immediately Packed on Ice N \_\_\_ Y

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

Quote #  
 Date Results Needed  
*STAT*

| Sample ID        | Comp/Grab | Matrix * | Depth | Date    | Time | No. of Cntrs | NWTPHGX 40mlAmb HCl | VOCs 8260LLC 40mlAmb-HCl | NO3 504 Cl x 125 ml | Alkalinity x 125 ml | EBM (R SK175LL) ~40 ml | TOC x 250 ml Amb. | Total Fe Mn 6020 250ml |
|------------------|-----------|----------|-------|---------|------|--------------|---------------------|--------------------------|---------------------|---------------------|------------------------|-------------------|------------------------|
| MW-158-042519    | Grab      | GW       | ~95   | 4-25-19 | 0955 | 12           | X                   | X                        | X                   | X                   | X                      | X                 | X                      |
| W-MW-01-042519   | ↓         | GW       | ~75   | ↓       | 1215 | 12           | X                   | X                        | X                   | X                   | X                      | X                 | X                      |
| R-MW6-042519     | ↓         | GW       | ~17   | ↓       | 1320 | 6            | X                   | X                        | X                   | X                   | X                      | X                 | X                      |
| TRIPBLANK-042519 |           | GW       | -     | -       | -    | 1            | X                   | X                        |                     |                     |                        |                   |                        |
|                  |           | GW       |       |         |      |              |                     |                          |                     |                     |                        |                   |                        |
|                  |           | GW       |       |         |      |              |                     |                          |                     |                     |                        |                   |                        |
|                  |           | GW       |       |         |      |              |                     |                          |                     |                     |                        |                   |                        |
|                  |           | GW       |       |         |      |              |                     |                          |                     |                     |                        |                   |                        |
|                  |           | GW       |       |         |      |              |                     |                          |                     |                     |                        |                   |                        |

L# *L1092880*  
**1032**  
 Accnum: PESENVSWA  
 Template: T149294  
 Prelogin: P704872  
 TSR: 110 - Brian Ford  
 PB:

| Remarks | Sample # (lab only) |
|---------|---------------------|
|         | -01                 |
|         | 02                  |
|         | 03                  |
|         | 04                  |

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

Remarks:  
 pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_  
 Samples returned via:  
 \_\_\_ UPS \_\_\_ FedEx \_\_\_ Courier \_\_\_\_\_  
 Tracking # *468664699982*

**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  
**RAD SCREEN: <0.5 mR/hr**

Relinquished by: (Signature)  
*[Signature]*

Date: *4/25/19*  
 Time: *16:00*

Received by: (Signature)  
 Trip Blank Received:  Yes / No  
 HCl / MeOH  
 TBR

Temp: *13.8F* °C  
 Bottles Received: *29*

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Received for lab by: (Signature)  
*[Signature]*

Date: *4/26/19*  
 Time: *0845*

Hold: \_\_\_\_\_  
 Condition: NCF  OK



Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 345000 |           | 2710 | 20000 | 1        | 05/03/2019 21:09 | <a href="#">WG1274856</a> |

Sample Narrative:

L1092880-01 WG1274856: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 26700  |           | 51.9 | 1000 | 1        | 04/26/2019 22:31 | <a href="#">WG1272235</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/26/2019 22:31 | <a href="#">WG1272235</a> |
| Sulfate  | 21100  |           | 77.4 | 5000 | 1        | 04/26/2019 22:31 | <a href="#">WG1272235</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 8110   |           | 204  | 2000 | 2        | 04/29/2019 17:13 | <a href="#">WG1273394</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL                  | RDL   | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|----------------------|-------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l                 | ug/l  |          | date / time      |                           |
| Iron      | 12400  | J         | <a href="#">O1 V</a> | 15.0  | 100      | 05/07/2019 20:31 | <a href="#">WG1271844</a> |
| Manganese | 393    | J         | <a href="#">O1</a>   | 0.250 | 5.00     | 05/07/2019 20:31 | <a href="#">WG1271844</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 05/01/2019 14:16 | <a href="#">WG1274492</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 93.7   |           |      | 78.0-120 |          | 05/01/2019 14:16 | <a href="#">WG1274492</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 177    |           | 0.287 | 0.678 | 1        | 05/03/2019 13:37 | <a href="#">WG1275530</a> |
| Ethane  | U      |           | 0.296 | 1.29  | 1        | 05/03/2019 13:37 | <a href="#">WG1275530</a> |
| Ethene  | 4.74   |           | 0.422 | 1.27  | 1        | 05/03/2019 13:37 | <a href="#">WG1275530</a> |

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

| Analyte              | Result | Qualifier | MDL                  | RDL   | Dilution | Analysis         | Batch                     |
|----------------------|--------|-----------|----------------------|-------|----------|------------------|---------------------------|
|                      | ug/l   |           | ug/l                 | ug/l  |          | date / time      |                           |
| Acetone              | 3.23   | U         | <a href="#">J JO</a> | 1.05  | 25.0     | 04/26/2019 23:06 | <a href="#">WG1272563</a> |
| Acrylonitrile        | U      |           | 0.873                | 5.00  | 1        | 04/26/2019 23:06 | <a href="#">WG1272563</a> |
| Benzene              | U      |           | 0.0896               | 0.500 | 1        | 04/26/2019 23:06 | <a href="#">WG1272563</a> |
| Bromobenzene         | U      |           | 0.133                | 0.500 | 1        | 04/26/2019 23:06 | <a href="#">WG1272563</a> |
| Bromodichloromethane | U      |           | 0.0800               | 0.500 | 1        | 04/26/2019 23:06 | <a href="#">WG1272563</a> |
| Bromochloromethane   | U      |           | 0.145                | 0.500 | 1        | 04/26/2019 23:06 | <a href="#">WG1272563</a> |
| Bromoform            | U      |           | 0.186                | 0.500 | 1        | 04/26/2019 23:06 | <a href="#">WG1272563</a> |
| Bromomethane         | U      | UJ        | <a href="#">JO</a>   | 0.157 | 2.50     | 04/26/2019 23:06 | <a href="#">WG1272563</a> |
| n-Butylbenzene       | U      |           | 0.143                | 0.500 | 1        | 04/26/2019 23:06 | <a href="#">WG1272563</a> |
| sec-Butylbenzene     | U      |           | 0.134                | 0.500 | 1        | 04/26/2019 23:06 | <a href="#">WG1272563</a> |
| tert-Butylbenzene    | U      |           | 0.183                | 0.500 | 1        | 04/26/2019 23:06 | <a href="#">WG1272563</a> |
| Carbon disulfide     | 0.351  | J         | <a href="#">J JO</a> | 0.101 | 0.500    | 04/26/2019 23:06 | <a href="#">WG1272563</a> |
| Carbon tetrachloride | U      |           | 0.159                | 0.500 | 1        | 04/26/2019 23:06 | <a href="#">WG1272563</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/13/19





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

| Analyte                        | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch     |
|--------------------------------|--------|-----------|--------|-------|----------|------------------|-----------|
|                                | ug/l   |           | ug/l   | ug/l  |          | date / time      |           |
| Chlorobenzene                  | U      |           | 0.140  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| Chlorodibromomethane           | U      |           | 0.128  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| Chloroethane                   | U      | UJ JO     | 0.141  | 2.50  | 1        | 04/26/2019 23:06 | WG1272563 |
| Chloroform                     | U      |           | 0.0860 | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| Chloromethane                  | U      |           | 0.153  | 1.25  | 1        | 04/26/2019 23:06 | WG1272563 |
| 2-Chlorotoluene                | U      |           | 0.111  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| 4-Chlorotoluene                | U      |           | 0.0972 | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| 1,2-Dibromo-3-Chloropropane    | U      |           | 0.325  | 2.50  | 1        | 04/26/2019 23:06 | WG1272563 |
| 1,2-Dibromoethane              | U      |           | 0.193  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| Dibromomethane                 | U      |           | 0.117  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| 1,2-Dichlorobenzene            | U      |           | 0.101  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| 1,3-Dichlorobenzene            | U      |           | 0.130  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| 1,4-Dichlorobenzene            | U      |           | 0.121  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| Dichlorodifluoromethane        | U      |           | 0.127  | 2.50  | 1        | 04/26/2019 23:06 | WG1272563 |
| 1,1-Dichloroethane             | U      |           | 0.114  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| 1,2-Dichloroethane             | U      |           | 0.108  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| 1,1-Dichloroethene             | U      |           | 0.188  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| cis-1,2-Dichloroethene         | 0.974  |           | 0.0933 | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| trans-1,2-Dichloroethene       | U      |           | 0.152  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| 1,2-Dichloropropane            | U      |           | 0.190  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| 1,1-Dichloropropene            | U      |           | 0.128  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| 1,3-Dichloropropane            | U      |           | 0.147  | 1.00  | 1        | 04/26/2019 23:06 | WG1272563 |
| cis-1,3-Dichloropropene        | U      |           | 0.0976 | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| trans-1,3-Dichloropropene      | U      |           | 0.222  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| trans-1,4-Dichloro-2-butene    | U      |           | 0.257  | 5.00  | 1        | 04/26/2019 23:06 | WG1272563 |
| 2,2-Dichloropropane            | U      |           | 0.0929 | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| Di-isopropyl ether             | U      |           | 0.0924 | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| Ethylbenzene                   | U      |           | 0.158  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| Hexachloro-1,3-butadiene       | U      |           | 0.157  | 1.00  | 1        | 04/26/2019 23:06 | WG1272563 |
| 2-Hexanone                     | U      | JJ        | 0.757  | 5.00  | 1        | 04/26/2019 23:06 | WG1272563 |
| n-Hexane                       | U      |           | 0.305  | 5.00  | 1        | 04/26/2019 23:06 | WG1272563 |
| Iodomethane                    | U      |           | 0.377  | 10.0  | 1        | 04/26/2019 23:06 | WG1272563 |
| Isopropylbenzene               | U      |           | 0.126  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| p-Isopropyltoluene             | U      |           | 0.138  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| 2-Butanone (MEK)               | U      |           | 1.28   | 5.00  | 1        | 04/26/2019 23:06 | WG1272563 |
| Methylene Chloride             | U      |           | 1.07   | 2.50  | 1        | 04/26/2019 23:06 | WG1272563 |
| 4-Methyl-2-pentanone (MIBK)    | U      |           | 0.823  | 5.00  | 1        | 04/26/2019 23:06 | WG1272563 |
| Methyl tert-butyl ether        | U      |           | 0.102  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| Naphthalene                    | U      |           | 0.174  | 2.50  | 1        | 04/26/2019 23:06 | WG1272563 |
| n-Propylbenzene                | U      |           | 0.162  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| Styrene                        | U      |           | 0.117  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| 1,1,1,2-Tetrachloroethane      | U      |           | 0.120  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| 1,1,2,2-Tetrachloroethane      | U      |           | 0.130  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| 1,1,2-Trichlorotrifluoroethane | U      |           | 0.164  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| Tetrachloroethene              | U      |           | 0.199  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| Toluene                        | U      |           | 0.412  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| 1,2,3-Trichlorobenzene         | U      |           | 0.164  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| 1,2,4-Trichlorobenzene         | U      |           | 0.355  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| 1,1,1-Trichloroethane          | U      |           | 0.0940 | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| 1,1,2-Trichloroethane          | U      |           | 0.186  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| Trichloroethene                | 0.240  | J J       | 0.153  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| Trichlorofluoromethane         | U      | UJ JO     | 0.130  | 2.50  | 1        | 04/26/2019 23:06 | WG1272563 |
| 1,2,3-Trichloropropane         | U      |           | 0.247  | 2.50  | 1        | 04/26/2019 23:06 | WG1272563 |
| 1,2,4-Trimethylbenzene         | U      |           | 0.123  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| 1,2,3-Trimethylbenzene         | U      |           | 0.0739 | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |
| 1,3,5-Trimethylbenzene         | U      |           | 0.124  | 0.500 | 1        | 04/26/2019 23:06 | WG1272563 |

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

JC 5/13/19



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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 04/26/2019 23:06        | <a href="#">WG1272563</a> |
| Vinyl chloride            | 3.08           | J JO      | 0.118       | 0.500       | 1        | 04/26/2019 23:06        | <a href="#">WG1272563</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/26/2019 23:06        | <a href="#">WG1272563</a> |
| (S) Toluene-d8            | 100            |           |             | 80.0-120    |          | 04/26/2019 23:06        | <a href="#">WG1272563</a> |
| (S) 4-Bromofluorobenzene  | 104            |           |             | 77.0-126    |          | 04/26/2019 23:06        | <a href="#">WG1272563</a> |
| (S) 1,2-Dichloroethane-d4 | 93.0           |           |             | 70.0-130    |          | 04/26/2019 23:06        | <a href="#">WG1272563</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/13/19





Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 246000 |           | 2710 | 20000 | 1        | 05/03/2019 21:16 | <a href="#">WG1274856</a> |

Sample Narrative:

L1092880-02 WG1274856: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 33700  |           | 51.9 | 1000 | 1        | 04/26/2019 23:00 | <a href="#">WG1272235</a> |
| Nitrate  | 397    |           | 22.7 | 100  | 1        | 04/26/2019 23:00 | <a href="#">WG1272235</a> |
| Sulfate  | 80000  |           | 77.4 | 5000 | 1        | 04/26/2019 23:00 | <a href="#">WG1272235</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 5410   |           | 102  | 1000 | 1        | 04/29/2019 17:25 | <a href="#">WG1273394</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 2020   |           | 15.0  | 100  | 1        | 05/07/2019 23:03 | <a href="#">WG1271844</a> |
| Manganese | 330    |           | 0.250 | 5.00 | 1        | 05/07/2019 23:03 | <a href="#">WG1271844</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 05/01/2019 14:37 | <a href="#">WG1274492</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 94.1   |           |      | 78.0-120 |          | 05/01/2019 14:37 | <a href="#">WG1274492</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 10.2   |           | 0.287 | 0.678 | 1        | 05/03/2019 13:39 | <a href="#">WG1275530</a> |
| Ethane  | U      |           | 0.296 | 1.29  | 1        | 05/03/2019 13:39 | <a href="#">WG1275530</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 05/03/2019 13:39 | <a href="#">WG1275530</a> |

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

| Analyte              | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch                                |                           |
|----------------------|--------|-----------|--------|-------|----------|------------------|--------------------------------------|---------------------------|
|                      | ug/l   |           | ug/l   | ug/l  |          | date / time      |                                      |                           |
| Acetone              | 2.03   | U         | J JO   | 1.05  | 25.0     | 1                | 04/26/2019 23:26                     | <a href="#">WG1272563</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 04/26/2019 23:26 | <a href="#">WG1272563</a>            |                           |
| Benzene              | U      |           | 0.0896 | 0.500 | 1        | 04/26/2019 23:26 | <a href="#">WG1272563</a>            |                           |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 04/26/2019 23:26 | <a href="#">WG1272563</a>            |                           |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 04/26/2019 23:26 | <a href="#">WG1272563</a>            |                           |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 04/26/2019 23:26 | <a href="#">WG1272563</a>            |                           |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 04/26/2019 23:26 | <a href="#">WG1272563</a>            |                           |
| Bromomethane         | U      | UJ        | JO     | 0.157 | 2.50     | 1                | 04/26/2019 23:26                     | <a href="#">WG1272563</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 04/26/2019 23:26 | <a href="#">WG1272563</a>            |                           |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 04/26/2019 23:26 | <a href="#">WG1272563</a> JC 5/13/19 |                           |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 04/26/2019 23:26 | <a href="#">WG1272563</a>            |                           |
| Carbon disulfide     | U      |           | 0.101  | 0.500 | 1        | 04/26/2019 23:26 | <a href="#">WG1272563</a>            |                           |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 04/26/2019 23:26 | <a href="#">WG1272563</a>            |                           |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/25/19 12:15

L1092880

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| Chloroethane                   | U              | UJ JO     | 0.141       | 2.50        | 1        | 04/26/2019 23:26        | WG1272563 |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 04/26/2019 23:26        | WG1272563 |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 04/26/2019 23:26        | WG1272563 |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 04/26/2019 23:26        | WG1272563 |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| 1,1-Dichloroethene             | U              |           | 0.188       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| cis-1,2-Dichloroethene         | 0.572          |           | 0.0933      | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| trans-1,2-Dichloroethene       | U              |           | 0.152       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 04/26/2019 23:26        | WG1272563 |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 04/26/2019 23:26        | WG1272563 |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 04/26/2019 23:26        | WG1272563 |
| 2-Hexanone                     | U              | JS        | 0.757       | 5.00        | 1        | 04/26/2019 23:26        | WG1272563 |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 04/26/2019 23:26        | WG1272563 |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 04/26/2019 23:26        | WG1272563 |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 04/26/2019 23:26        | WG1272563 |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/26/2019 23:26        | WG1272563 |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/26/2019 23:26        | WG1272563 |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| Naphthalene                    | 0.211          | J J       | 0.174       | 2.50        | 1        | 04/26/2019 23:26        | WG1272563 |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| Trichloroethene                | 0.373          | J J       | 0.153       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 04/26/2019 23:26        | WG1272563 |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/26/2019 23:26        | WG1272563 |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/26/2019 23:26        | WG1272563 |

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

JC 5/13/19



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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| Vinyl chloride            | 6.61           | J JO      | 0.118       | 0.500       | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| (S) Toluene-d8            | 98.9           |           |             | 80.0-120    |          | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| (S) 4-Bromofluorobenzene  | 105            |           |             | 77.0-126    |          | 04/26/2019 23:26        | <a href="#">WG1272563</a> |
| (S) 1,2-Dichloroethane-d4 | 93.8           |           |             | 70.0-130    |          | 04/26/2019 23:26        | <a href="#">WG1272563</a> |

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

JC 5/13/19



Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | U              |           | 31.6        | 100         | 1        | 05/01/2019 14:57        | <a href="#">WG1274492</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 93.6           |           |             | 78.0-120    |          | 05/01/2019 14:57        | <a href="#">WG1274492</a> |

- 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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch            |                           |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|------------------|---------------------------|
| Acetone                     | 2.91           | U         | J JO        | 1.05        | 25.0     | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| Acrylonitrile               | U              |           |             | 0.873       | 5.00     | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| Benzene                     | U              |           |             | 0.0896      | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| Bromobenzene                | U              |           |             | 0.133       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| Bromodichloromethane        | U              |           |             | 0.0800      | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| Bromochloromethane          | U              |           |             | 0.145       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| Bromoform                   | U              |           |             | 0.186       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| Bromomethane                | U              | UJ        | JO          | 0.157       | 2.50     | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| n-Butylbenzene              | U              |           |             | 0.143       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| sec-Butylbenzene            | U              |           |             | 0.134       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| tert-Butylbenzene           | U              |           |             | 0.183       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| Carbon disulfide            | U              |           |             | 0.101       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| Carbon tetrachloride        | U              |           |             | 0.159       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| Chlorobenzene               | U              |           |             | 0.140       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| Chlorodibromomethane        | U              |           |             | 0.128       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| Chloroethane                | U              | UJ        | JO          | 0.141       | 2.50     | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| Chloroform                  | U              |           |             | 0.0860      | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| Chloromethane               | U              |           |             | 0.153       | 1.25     | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| 2-Chlorotoluene             | U              |           |             | 0.111       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| 4-Chlorotoluene             | U              |           |             | 0.0972      | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| 1,2-Dibromo-3-Chloropropane | U              |           |             | 0.325       | 2.50     | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| 1,2-Dibromoethane           | U              |           |             | 0.193       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| Dibromomethane              | U              |           |             | 0.117       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| 1,2-Dichlorobenzene         | U              |           |             | 0.101       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| 1,3-Dichlorobenzene         | U              |           |             | 0.130       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| 1,4-Dichlorobenzene         | U              |           |             | 0.121       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| Dichlorodifluoromethane     | U              |           |             | 0.127       | 2.50     | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| 1,1-Dichloroethane          | U              |           |             | 0.114       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| 1,2-Dichloroethane          | U              |           |             | 0.108       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| 1,1-Dichloroethene          | U              |           |             | 0.188       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| cis-1,2-Dichloroethene      | 11.8           |           |             | 0.0933      | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| trans-1,2-Dichloroethene    | 0.168          | J         | J           | 0.152       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| 1,2-Dichloropropane         | U              |           |             | 0.190       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| 1,1-Dichloropropene         | U              |           |             | 0.128       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| 1,3-Dichloropropane         | U              |           |             | 0.147       | 1.00     | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| cis-1,3-Dichloropropene     | U              |           |             | 0.0976      | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| trans-1,3-Dichloropropene   | U              |           |             | 0.222       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| trans-1,4-Dichloro-2-butene | U              |           |             | 0.257       | 5.00     | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| 2,2-Dichloropropane         | U              |           |             | 0.0929      | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| Di-isopropyl ether          | U              |           |             | 0.0924      | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| Ethylbenzene                | U              |           |             | 0.158       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| Hexachloro-1,3-butadiene    | U              |           |             | 0.157       | 1.00     | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| 2-Hexanone                  | U              |           | <u>13</u>   | 0.757       | 5.00     | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| n-Hexane                    | U              |           |             | 0.305       | 5.00     | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| Iodomethane                 | U              |           |             | 0.377       | 10.0     | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| Isopropylbenzene            | U              |           |             | 0.126       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| p-Isopropyltoluene          | U              |           |             | 0.138       | 0.500    | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |
| 2-Butanone (MEK)            | U              |           |             | 1.28        | 5.00     | 1                       | 04/26/2019 23:46 | <a href="#">WG1272563</a> |

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Trichloroethene                | 0.370          | J J       | 0.153       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Vinyl acetate                  | U              |           | 0.645       | 5.00        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Vinyl chloride                 | 7.16           | J JO      | 0.118       | 0.500       | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| (S) Toluene-d8                 | 95.8           |           |             | 80.0-120    |          | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| (S) 4-Bromofluorobenzene       | 98.9           |           |             | 77.0-126    |          | 04/26/2019 23:46        | <a href="#">WG1272563</a> |
| (S) 1,2-Dichloroethane-d4      | 93.2           |           |             | 70.0-130    |          | 04/26/2019 23:46        | <a href="#">WG1272563</a> |

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

JC 5/13/19



Collected date/time: 04/25/19 00:00

L1092880

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | U              |           | 31.6        | 100         | 1        | 05/01/2019 13:14        | <a href="#">WG1274492</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 94.5           |           |             | 78.0-120    |          | 05/01/2019 13:14        | <a href="#">WG1274492</a> |

- 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<br>ug/l | Qualifier     | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|---------------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | 2.62           | <u>J JO</u>   | 1.05        | 25.0        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Acrylonitrile               | U              |               | 0.873       | 5.00        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Benzene                     | U              |               | 0.0896      | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Bromobenzene                | U              |               | 0.133       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Bromodichloromethane        | U              |               | 0.0800      | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Bromochloromethane          | U              |               | 0.145       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Bromoform                   | U              |               | 0.186       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Bromomethane                | U              | UJ <u>JO</u>  | 0.157       | 2.50        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| n-Butylbenzene              | U              |               | 0.143       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| sec-Butylbenzene            | U              |               | 0.134       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| tert-Butylbenzene           | U              |               | 0.183       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Carbon disulfide            | U              |               | 0.101       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Carbon tetrachloride        | U              |               | 0.159       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Chlorobenzene               | U              |               | 0.140       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Chlorodibromomethane        | U              |               | 0.128       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Chloroethane                | U              | UJ <u>JO</u>  | 0.141       | 2.50        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Chloroform                  | U              |               | 0.0860      | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Chloromethane               | U              |               | 0.153       | 1.25        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 2-Chlorotoluene             | U              |               | 0.111       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 4-Chlorotoluene             | U              |               | 0.0972      | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,2-Dibromo-3-Chloropropane | U              |               | 0.325       | 2.50        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,2-Dibromoethane           | U              |               | 0.193       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Dibromomethane              | U              |               | 0.117       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,2-Dichlorobenzene         | U              |               | 0.101       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,3-Dichlorobenzene         | U              |               | 0.130       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,4-Dichlorobenzene         | U              |               | 0.121       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Dichlorodifluoromethane     | U              |               | 0.127       | 2.50        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,1-Dichloroethane          | U              |               | 0.114       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,2-Dichloroethane          | U              |               | 0.108       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,1-Dichloroethene          | U              |               | 0.188       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| cis-1,2-Dichloroethene      | U              |               | 0.0933      | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| trans-1,2-Dichloroethene    | U              |               | 0.152       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,2-Dichloropropane         | U              |               | 0.190       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,1-Dichloropropene         | U              |               | 0.128       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 1,3-Dichloropropane         | U              |               | 0.147       | 1.00        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| cis-1,3-Dichloropropene     | U              |               | 0.0976      | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| trans-1,3-Dichloropropene   | U              |               | 0.222       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| trans-1,4-Dichloro-2-butene | U              |               | 0.257       | 5.00        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 2,2-Dichloropropane         | U              |               | 0.0929      | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Di-isopropyl ether          | U              |               | 0.0924      | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Ethylbenzene                | U              |               | 0.158       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Hexachloro-1,3-butadiene    | U              |               | 0.157       | 1.00        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 2-Hexanone                  | U              | <del>JJ</del> | 0.757       | 5.00        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| n-Hexane                    | U              |               | 0.305       | 5.00        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Iodomethane                 | U              |               | 0.377       | 10.0        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| Isopropylbenzene            | U              |               | 0.126       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| p-Isopropyltoluene          | U              |               | 0.138       | 0.500       | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |
| 2-Butanone (MEK)            | U              |               | 1.28        | 5.00        | 1        | 04/26/2019 17:47        | <a href="#">WG1272563</a> |

JC 5/13/19



Collected date/time: 04/25/19 00:00

L1092880

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

| Analyte                        | Result | Qualifier           | MDL    | RDL      | Dilution | Analysis         | Batch                     |
|--------------------------------|--------|---------------------|--------|----------|----------|------------------|---------------------------|
|                                | ug/l   |                     | ug/l   | ug/l     |          | date / time      |                           |
| Methylene Chloride             | U      |                     | 1.07   | 2.50     | 1        | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| 4-Methyl-2-pentanone (MIBK)    | U      |                     | 0.823  | 5.00     | 1        | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| Methyl tert-butyl ether        | U      |                     | 0.102  | 0.500    | 1        | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| Naphthalene                    | U      |                     | 0.174  | 2.50     | 1        | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| n-Propylbenzene                | U      |                     | 0.162  | 0.500    | 1        | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| Styrene                        | U      |                     | 0.117  | 0.500    | 1        | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| 1,1,1,2-Tetrachloroethane      | U      |                     | 0.120  | 0.500    | 1        | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| 1,1,2,2-Tetrachloroethane      | U      |                     | 0.130  | 0.500    | 1        | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| 1,1,2-Trichlorotrifluoroethane | U      |                     | 0.164  | 0.500    | 1        | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| Tetrachloroethene              | U      |                     | 0.199  | 0.500    | 1        | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| Toluene                        | U      |                     | 0.412  | 0.500    | 1        | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| 1,2,3-Trichlorobenzene         | U      |                     | 0.164  | 0.500    | 1        | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| 1,2,4-Trichlorobenzene         | U      |                     | 0.355  | 0.500    | 1        | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| 1,1,1-Trichloroethane          | U      |                     | 0.0940 | 0.500    | 1        | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| 1,1,2-Trichloroethane          | U      |                     | 0.186  | 0.500    | 1        | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| Trichloroethene                | U      |                     | 0.153  | 0.500    | 1        | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| Trichlorofluoromethane         | U      | <b>UJ</b> <u>JO</u> | 0.130  | 2.50     | 1        | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| 1,2,3-Trichloropropane         | U      |                     | 0.247  | 2.50     | 1        | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| 1,2,4-Trimethylbenzene         | U      |                     | 0.123  | 0.500    | 1        | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| 1,2,3-Trimethylbenzene         | U      |                     | 0.0739 | 0.500    | 1        | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| 1,3,5-Trimethylbenzene         | U      |                     | 0.124  | 0.500    | 1        | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| Vinyl acetate                  | U      |                     | 0.645  | 5.00     | 1        | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| Vinyl chloride                 | U      | <b>UJ</b> <u>JO</u> | 0.118  | 0.500    | 1        | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| Xylenes, Total                 | U      |                     | 0.316  | 1.50     | 1        | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| (S) Toluene-d8                 | 101    |                     |        | 80.0-120 |          | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| (S) 4-Bromofluorobenzene       | 106    |                     |        | 77.0-126 |          | 04/26/2019 17:47 | <a href="#">WG1272563</a> |
| (S) 1,2-Dichloroethane-d4      | 92.9   |                     |        | 70.0-130 |          | 04/26/2019 17:47 | <a href="#">WG1272563</a> |

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

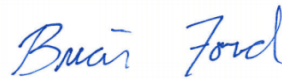
JC 5/13/19



## PES Environmental, Inc.- WA

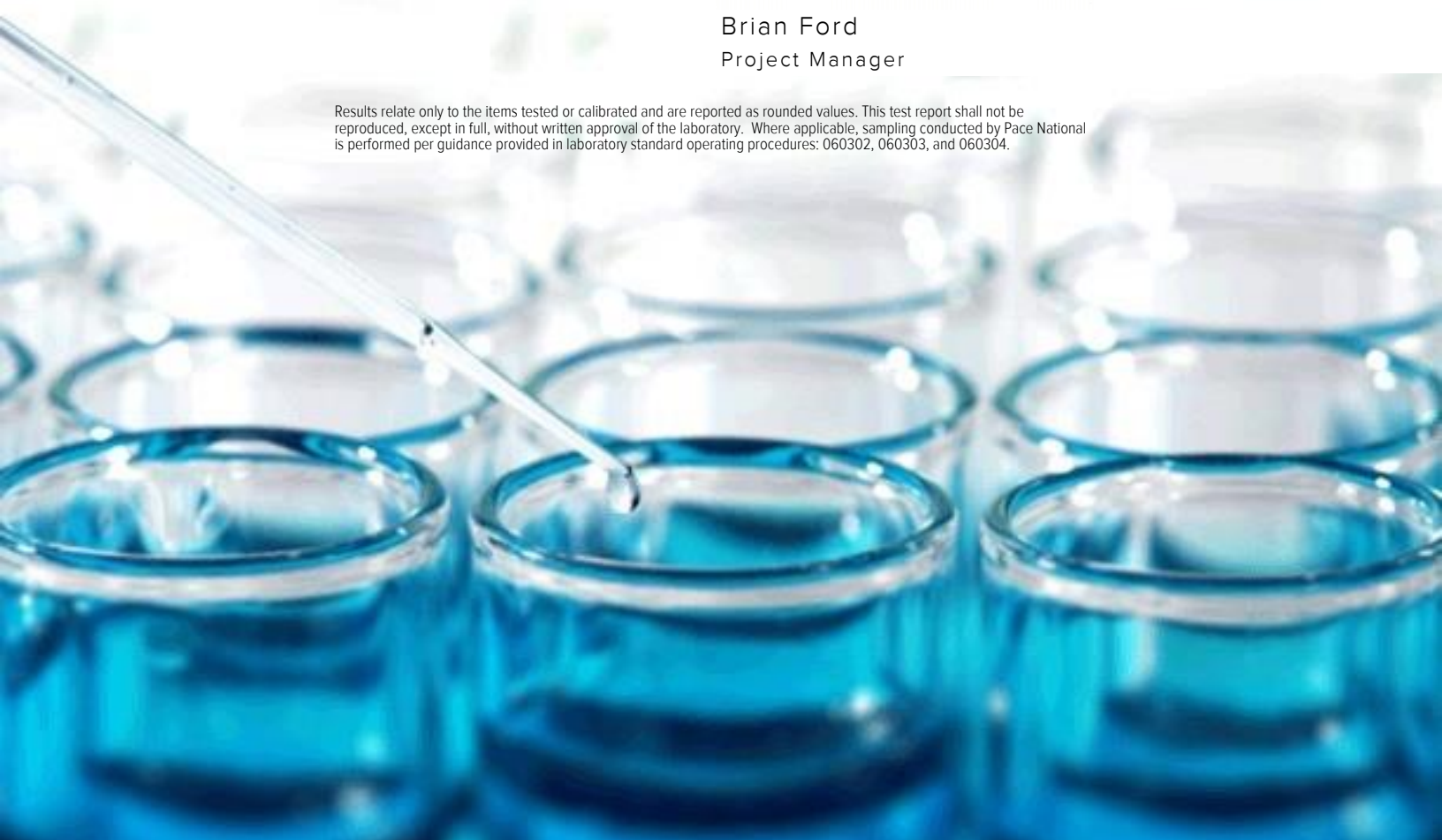
Sample Delivery Group: L1093242  
Samples Received: 04/27/2019  
Project Number: 1413.001.05.601  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

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.







|  |           |             |
|--|-----------|-------------|
| <b>Cp: Cover Page</b>                              | <b>1</b>  | <b>1</b> Cp |
| <b>Tc: Table of Contents</b>                       | <b>2</b>  |             |
| <b>Ss: Sample Summary</b>                          | <b>3</b>  | <b>2</b> Tc |
| <b>Cn: Case Narrative</b>                          | <b>5</b>  |             |
| <b>Sr: Sample Results</b>                          | <b>6</b>  | <b>3</b> Ss |
| MW106-042619 L1093242-01                           | 6         |             |
| MW145-042619 L1093242-02                           | 9         | <b>4</b> Cn |
| MW110-042619 L1093242-03                           | 12        | <b>5</b> Sr |
| TRIP BLANK-042419 L1093242-04                      | 14        |             |
| MW-910-042619 L1093242-05                          | 16        | <b>6</b> Qc |
| MW-178-042619 L1093242-06                          | 18        |             |
| MW-159-042519 L1093242-07                          | 21        | <b>7</b> Gl |
| MW-9-042619 L1093242-08                            | 23        | <b>8</b> Al |
| <b>Qc: Quality Control Summary</b>                 | <b>25</b> | <b>9</b> Sc |
| Wet Chemistry by Method 2320 B-2011                | 25        |             |
| Wet Chemistry by Method 9056A                      | 26        |             |
| Wet Chemistry by Method 9060A                      | 28        |             |
| Metals (ICPMS) by Method 6020B                     | 29        |             |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | 30        |             |
| Volatile Organic Compounds (GC) by Method RSK175   | 31        |             |
| Volatile Organic Compounds (GC/MS) by Method 8260C | 32        |             |
| <b>Gl: Glossary of Terms</b>                       | <b>37</b> |             |
| <b>Al: Accreditations &amp; Locations</b>          | <b>38</b> |             |
| <b>Sc: Sample Chain of Custody</b>                 | <b>39</b> |             |

# SAMPLE SUMMARY



## MW106-042619 L1093242-01 GW

Collected by K. Zygus      Collected date/time 04/26/19 09:30      Received date/time 04/27/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011                | WG1275809 | 1        | 05/04/19 20:24        | 05/04/19 20:24     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1272741 | 1        | 04/27/19 13:06        | 04/27/19 13:06     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                      | WG1273394 | 1        | 04/29/19 19:55        | 04/29/19 19:55     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1271844 | 1        | 04/30/19 09:36        | 05/07/19 23:12     | LD      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1274492 | 1        | 05/01/19 15:18        | 05/01/19 15:18     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1275531 | 1        | 05/03/19 15:01        | 05/03/19 15:01     | DAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1272804 | 1        | 04/27/19 16:01        | 04/27/19 16:01     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1275623 | 1        | 05/03/19 13:59        | 05/03/19 13:59     | JHH     | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## MW145-042619 L1093242-02 GW

Collected by K. Zygus      Collected date/time 04/26/19 11:40      Received date/time 04/27/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011                | WG1275809 | 1        | 05/04/19 20:31        | 05/04/19 20:31     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1272741 | 1        | 04/27/19 13:21        | 04/27/19 13:21     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                      | WG1273394 | 1        | 04/29/19 20:10        | 04/29/19 20:10     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1271844 | 1        | 04/30/19 09:36        | 05/07/19 23:17     | LD      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1274492 | 1        | 05/01/19 15:38        | 05/01/19 15:38     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1275531 | 1        | 05/03/19 15:15        | 05/03/19 15:15     | DAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1272804 | 1        | 04/27/19 16:21        | 04/27/19 16:21     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1275623 | 1        | 05/03/19 14:19        | 05/03/19 14:19     | JHH     | Mt. Juliet, TN |

## MW110-042619 L1093242-03 GW

Collected by K. Zygus      Collected date/time 04/26/19 13:30      Received date/time 04/27/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1272804 | 1        | 04/27/19 16:41        | 04/27/19 16:41     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1275623 | 50       | 05/03/19 16:20        | 05/03/19 16:20     | DWR     | Mt. Juliet, TN |

## TRIP BLANK-042419 L1093242-04 GW

Collected by K. Zygus      Collected date/time 04/26/19 00:00      Received date/time 04/27/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1274492 | 1        | 05/01/19 13:35        | 05/01/19 13:35     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1272804 | 1        | 04/27/19 11:51        | 04/27/19 11:51     | BMB     | Mt. Juliet, TN |

## MW-910-042619 L1093242-05 GW

Collected by K. Zygus      Collected date/time 04/26/19 08:15      Received date/time 04/27/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1274492 | 1        | 05/01/19 15:59        | 05/01/19 15:59     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1272804 | 1        | 04/27/19 17:01        | 04/27/19 17:01     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1275623 | 1        | 05/03/19 14:59        | 05/03/19 14:59     | DWR     | Mt. Juliet, TN |

## MW-178-042619 L1093242-06 GW

Collected by K. Zygus      Collected date/time 04/26/19 09:10      Received date/time 04/27/19 08:45

| Method                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011 | WG1275809 | 1        | 05/04/19 20:39        | 05/04/19 20:39     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A       | WG1272741 | 1        | 04/27/19 14:05        | 04/27/19 14:05     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A       | WG1272741 | 5        | 04/27/19 14:58        | 04/27/19 14:58     | ST      | Mt. Juliet, TN |

# SAMPLE SUMMARY

## MW-178-042619 L1093242-06 GW

Collected by: K. Zygas  
 Collected date/time: 04/26/19 09:10  
 Received date/time: 04/27/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 9060A                      | WG1273394 | 1        | 04/29/19 20:23        | 04/29/19 20:23     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1271844 | 1        | 04/30/19 09:36        | 05/07/19 23:21     | LD      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1274492 | 1        | 05/01/19 16:20        | 05/01/19 16:20     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1275531 | 1        | 05/03/19 15:20        | 05/03/19 15:20     | DAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1272804 | 1        | 04/27/19 17:21        | 04/27/19 17:21     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1275623 | 1        | 05/03/19 15:19        | 05/03/19 15:19     | DWR     | Mt. Juliet, TN |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

## MW-159-042519 L1093242-07 GW

Collected by: K. Zygas  
 Collected date/time: 04/26/19 11:05  
 Received date/time: 04/27/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1274492 | 1        | 05/01/19 16:40        | 05/01/19 16:40     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1272804 | 1        | 04/27/19 17:41        | 04/27/19 17:41     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1275623 | 1        | 05/03/19 15:39        | 05/03/19 15:39     | DWR     | Mt. Juliet, TN |

- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al

## MW-9-042619 L1093242-08 GW

Collected by: K. Zygas  
 Collected date/time: 04/26/19 13:00  
 Received date/time: 04/27/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1274492 | 1        | 05/01/19 17:01        | 05/01/19 17:01     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1272804 | 1        | 04/27/19 18:01        | 04/27/19 18:01     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1275623 | 1        | 05/03/19 16:00        | 05/03/19 16:00     | DWR     | Mt. Juliet, TN |

- 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

### Sample Handling and Receiving

---

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

| <u>Lab Sample ID</u>        | <u>Project Sample ID</u>      | <u>Method</u> |
|-----------------------------|-------------------------------|---------------|
| <a href="#">L1093242-06</a> | <a href="#">MW-178-042619</a> | 9060A         |

- 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 | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 267000 |           | 2710 | 20000 | 1        | 05/04/2019 20:24 | <a href="#">WG1275809</a> |

Sample Narrative:

L1093242-01 WG1275809: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 23600  |           | 51.9 | 1000 | 1        | 04/27/2019 13:06 | <a href="#">WG1272741</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/27/2019 13:06 | <a href="#">WG1272741</a> |
| Sulfate  | 15900  |           | 77.4 | 5000 | 1        | 04/27/2019 13:06 | <a href="#">WG1272741</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 3320   |           | 102  | 1000 | 1        | 04/29/2019 19:55 | <a href="#">WG1273394</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 3420   |           | 15.0  | 100  | 1        | 05/07/2019 23:12 | <a href="#">WG1271844</a> |
| Manganese | 695    |           | 0.250 | 5.00 | 1        | 05/07/2019 23:12 | <a href="#">WG1271844</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 05/01/2019 15:18 | <a href="#">WG1274492</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 92.9   |           |      | 78.0-120 |          | 05/01/2019 15:18 | <a href="#">WG1274492</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 42.1   |           | 0.287 | 0.678 | 1        | 05/03/2019 15:01 | <a href="#">WG1275531</a> |
| Ethane  | U      |           | 0.296 | 1.29  | 1        | 05/03/2019 15:01 | <a href="#">WG1275531</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 05/03/2019 15:01 | <a href="#">WG1275531</a> |

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              | 1.65   | J         | 1.05   | 25.0  | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |
| Benzene              | U      |           | 0.0896 | 0.500 | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |
| Bromomethane         | U      | JO        | 0.157  | 2.50  | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |
| Carbon disulfide     | 0.142  | J         | 0.101  | 0.500 | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/26/19 09:30

L1093242

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

| Analyte                        | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch     |
|--------------------------------|--------|-----------|--------|-------|----------|------------------|-----------|
|                                | ug/l   |           | ug/l   | ug/l  |          | date / time      |           |
| Chlorobenzene                  | U      |           | 0.140  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Chlorodibromomethane           | U      |           | 0.128  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Chloroethane                   | U      | JO        | 0.141  | 2.50  | 1        | 05/03/2019 13:59 | WG1275623 |
| Chloroform                     | U      |           | 0.0860 | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Chloromethane                  | U      |           | 0.153  | 1.25  | 1        | 04/27/2019 16:01 | WG1272804 |
| 2-Chlorotoluene                | U      |           | 0.111  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 4-Chlorotoluene                | U      |           | 0.0972 | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,2-Dibromo-3-Chloropropane    | U      |           | 0.325  | 2.50  | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,2-Dibromoethane              | U      |           | 0.193  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Dibromomethane                 | U      |           | 0.117  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,2-Dichlorobenzene            | U      |           | 0.101  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,3-Dichlorobenzene            | U      |           | 0.130  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,4-Dichlorobenzene            | U      |           | 0.121  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Dichlorodifluoromethane        | U      |           | 0.127  | 2.50  | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,1-Dichloroethane             | U      |           | 0.114  | 0.500 | 1        | 05/03/2019 13:59 | WG1275623 |
| 1,2-Dichloroethane             | U      |           | 0.108  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,1-Dichloroethene             | U      |           | 0.188  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| cis-1,2-Dichloroethene         | U      |           | 0.0933 | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| trans-1,2-Dichloroethene       | U      |           | 0.152  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,2-Dichloropropane            | U      |           | 0.190  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,1-Dichloropropene            | U      |           | 0.128  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,3-Dichloropropane            | U      |           | 0.147  | 1.00  | 1        | 04/27/2019 16:01 | WG1272804 |
| cis-1,3-Dichloropropene        | U      |           | 0.0976 | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| trans-1,3-Dichloropropene      | U      |           | 0.222  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| trans-1,4-Dichloro-2-butene    | U      |           | 0.257  | 5.00  | 1        | 04/27/2019 16:01 | WG1272804 |
| 2,2-Dichloropropane            | U      |           | 0.0929 | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Di-isopropyl ether             | U      |           | 0.0924 | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Ethylbenzene                   | U      |           | 0.158  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Hexachloro-1,3-butadiene       | U      |           | 0.157  | 1.00  | 1        | 04/27/2019 16:01 | WG1272804 |
| 2-Hexanone                     | U      |           | 0.757  | 5.00  | 1        | 04/27/2019 16:01 | WG1272804 |
| n-Hexane                       | U      |           | 0.305  | 5.00  | 1        | 04/27/2019 16:01 | WG1272804 |
| Iodomethane                    | U      |           | 0.377  | 10.0  | 1        | 04/27/2019 16:01 | WG1272804 |
| Isopropylbenzene               | U      |           | 0.126  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| p-Isopropyltoluene             | U      |           | 0.138  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 2-Butanone (MEK)               | U      |           | 1.28   | 5.00  | 1        | 04/27/2019 16:01 | WG1272804 |
| Methylene Chloride             | U      |           | 1.07   | 2.50  | 1        | 04/27/2019 16:01 | WG1272804 |
| 4-Methyl-2-pentanone (MIBK)    | U      |           | 0.823  | 5.00  | 1        | 04/27/2019 16:01 | WG1272804 |
| Methyl tert-butyl ether        | U      |           | 0.102  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Naphthalene                    | U      |           | 0.174  | 2.50  | 1        | 04/27/2019 16:01 | WG1272804 |
| n-Propylbenzene                | U      |           | 0.162  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Styrene                        | U      |           | 0.117  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,1,1,2-Tetrachloroethane      | U      |           | 0.120  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,1,2,2-Tetrachloroethane      | U      |           | 0.130  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,1,2-Trichlorotrifluoroethane | U      |           | 0.164  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Tetrachloroethene              | U      |           | 0.199  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Toluene                        | U      |           | 0.412  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,2,3-Trichlorobenzene         | U      |           | 0.164  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,2,4-Trichlorobenzene         | U      |           | 0.355  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,1,1-Trichloroethane          | U      |           | 0.0940 | 0.500 | 1        | 05/03/2019 13:59 | WG1275623 |
| 1,1,2-Trichloroethane          | U      |           | 0.186  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Trichloroethene                | U      |           | 0.153  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Trichlorofluoromethane         | U      | JO        | 0.130  | 2.50  | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,2,3-Trichloropropane         | U      |           | 0.247  | 2.50  | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,2,4-Trimethylbenzene         | U      |           | 0.123  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,2,3-Trimethylbenzene         | U      |           | 0.0739 | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,3,5-Trimethylbenzene         | U      |           | 0.124  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 04/27/2019 16:01        | <a href="#">WG1272804</a> |
| Vinyl chloride            | U              | <u>JO</u> | 0.118       | 0.500       | 1        | 04/27/2019 16:01        | <a href="#">WG1272804</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/27/2019 16:01        | <a href="#">WG1272804</a> |
| (S) Toluene-d8            | 97.8           |           |             | 80.0-120    |          | 04/27/2019 16:01        | <a href="#">WG1272804</a> |
| (S) Toluene-d8            | 96.7           |           |             | 80.0-120    |          | 05/03/2019 13:59        | <a href="#">WG1275623</a> |
| (S) 4-Bromofluorobenzene  | 105            |           |             | 77.0-126    |          | 04/27/2019 16:01        | <a href="#">WG1272804</a> |
| (S) 4-Bromofluorobenzene  | 104            |           |             | 77.0-126    |          | 05/03/2019 13:59        | <a href="#">WG1275623</a> |
| (S) 1,2-Dichloroethane-d4 | 96.8           |           |             | 70.0-130    |          | 04/27/2019 16:01        | <a href="#">WG1272804</a> |
| (S) 1,2-Dichloroethane-d4 | 94.6           |           |             | 70.0-130    |          | 05/03/2019 13:59        | <a href="#">WG1275623</a> |

- 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 | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 287000 |           | 2710 | 20000 | 1        | 05/04/2019 20:31 | <a href="#">WG1275809</a> |

Sample Narrative:

L1093242-02 WG1275809: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 44700  |           | 51.9 | 1000 | 1        | 04/27/2019 13:21 | <a href="#">WG1272741</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/27/2019 13:21 | <a href="#">WG1272741</a> |
| Sulfate  | 73900  |           | 77.4 | 5000 | 1        | 04/27/2019 13:21 | <a href="#">WG1272741</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 5290   |           | 102  | 1000 | 1        | 04/29/2019 20:10 | <a href="#">WG1273394</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 5730   |           | 15.0  | 100  | 1        | 05/07/2019 23:17 | <a href="#">WG1271844</a> |
| Manganese | 318    |           | 0.250 | 5.00 | 1        | 05/07/2019 23:17 | <a href="#">WG1271844</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 05/01/2019 15:38 | <a href="#">WG1274492</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 93.9   |           |      | 78.0-120 |          | 05/01/2019 15:38 | <a href="#">WG1274492</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 455    |           | 0.287 | 0.678 | 1        | 05/03/2019 15:15 | <a href="#">WG1275531</a> |
| Ethane  | 1.73   |           | 0.296 | 1.29  | 1        | 05/03/2019 15:15 | <a href="#">WG1275531</a> |
| Ethene  | 5.24   |           | 0.422 | 1.27  | 1        | 05/03/2019 15:15 | <a href="#">WG1275531</a> |

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

| Analyte              | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch                     |
|----------------------|--------|-----------|--------|-------|----------|------------------|---------------------------|
|                      | ug/l   |           | ug/l   | ug/l  |          | date / time      |                           |
| Acetone              | 3.01   | J         | 1.05   | 25.0  | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a> |
| Benzene              | U      |           | 0.0896 | 0.500 | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a> |
| Bromomethane         | U      | JO        | 0.157  | 2.50  | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a> |
| Carbon disulfide     | 0.365  | J         | 0.101  | 0.500 | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Collected date/time: 04/26/19 11:40

L1093242

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

| Analyte                        | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch     |
|--------------------------------|--------|-----------|--------|-------|----------|------------------|-----------|
|                                | ug/l   |           | ug/l   | ug/l  |          | date / time      |           |
| Chlorobenzene                  | U      |           | 0.140  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Chlorodibromomethane           | U      |           | 0.128  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Chloroethane                   | U      | JO        | 0.141  | 2.50  | 1        | 05/03/2019 14:19 | WG1275623 |
| Chloroform                     | U      |           | 0.0860 | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Chloromethane                  | U      |           | 0.153  | 1.25  | 1        | 04/27/2019 16:21 | WG1272804 |
| 2-Chlorotoluene                | U      |           | 0.111  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 4-Chlorotoluene                | U      |           | 0.0972 | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,2-Dibromo-3-Chloropropane    | U      |           | 0.325  | 2.50  | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,2-Dibromoethane              | U      |           | 0.193  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Dibromomethane                 | U      |           | 0.117  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,2-Dichlorobenzene            | U      |           | 0.101  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,3-Dichlorobenzene            | U      |           | 0.130  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,4-Dichlorobenzene            | U      |           | 0.121  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Dichlorodifluoromethane        | U      |           | 0.127  | 2.50  | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,1-Dichloroethane             | U      |           | 0.114  | 0.500 | 1        | 05/03/2019 14:19 | WG1275623 |
| 1,2-Dichloroethane             | U      |           | 0.108  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,1-Dichloroethene             | U      |           | 0.188  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| cis-1,2-Dichloroethene         | U      |           | 0.0933 | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| trans-1,2-Dichloroethene       | U      |           | 0.152  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,2-Dichloropropane            | U      |           | 0.190  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,1-Dichloropropene            | U      |           | 0.128  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,3-Dichloropropane            | U      |           | 0.147  | 1.00  | 1        | 04/27/2019 16:21 | WG1272804 |
| cis-1,3-Dichloropropene        | U      |           | 0.0976 | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| trans-1,3-Dichloropropene      | U      |           | 0.222  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| trans-1,4-Dichloro-2-butene    | U      |           | 0.257  | 5.00  | 1        | 04/27/2019 16:21 | WG1272804 |
| 2,2-Dichloropropane            | U      |           | 0.0929 | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Di-isopropyl ether             | U      |           | 0.0924 | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Ethylbenzene                   | U      |           | 0.158  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Hexachloro-1,3-butadiene       | U      |           | 0.157  | 1.00  | 1        | 04/27/2019 16:21 | WG1272804 |
| 2-Hexanone                     | U      |           | 0.757  | 5.00  | 1        | 04/27/2019 16:21 | WG1272804 |
| n-Hexane                       | U      |           | 0.305  | 5.00  | 1        | 04/27/2019 16:21 | WG1272804 |
| Iodomethane                    | U      |           | 0.377  | 10.0  | 1        | 04/27/2019 16:21 | WG1272804 |
| Isopropylbenzene               | U      |           | 0.126  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| p-Isopropyltoluene             | U      |           | 0.138  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 2-Butanone (MEK)               | U      |           | 1.28   | 5.00  | 1        | 04/27/2019 16:21 | WG1272804 |
| Methylene Chloride             | U      |           | 1.07   | 2.50  | 1        | 04/27/2019 16:21 | WG1272804 |
| 4-Methyl-2-pentanone (MIBK)    | U      |           | 0.823  | 5.00  | 1        | 04/27/2019 16:21 | WG1272804 |
| Methyl tert-butyl ether        | U      |           | 0.102  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Naphthalene                    | U      |           | 0.174  | 2.50  | 1        | 04/27/2019 16:21 | WG1272804 |
| n-Propylbenzene                | U      |           | 0.162  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Styrene                        | U      |           | 0.117  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,1,1,2-Tetrachloroethane      | U      |           | 0.120  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,1,2,2-Tetrachloroethane      | U      |           | 0.130  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,1,2-Trichlorotrifluoroethane | U      |           | 0.164  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Tetrachloroethene              | U      |           | 0.199  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Toluene                        | U      |           | 0.412  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,2,3-Trichlorobenzene         | U      |           | 0.164  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,2,4-Trichlorobenzene         | U      |           | 0.355  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,1,1-Trichloroethane          | U      |           | 0.0940 | 0.500 | 1        | 05/03/2019 14:19 | WG1275623 |
| 1,1,2-Trichloroethane          | U      |           | 0.186  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Trichloroethene                | U      |           | 0.153  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Trichlorofluoromethane         | U      | JO        | 0.130  | 2.50  | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,2,3-Trichloropropane         | U      |           | 0.247  | 2.50  | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,2,4-Trimethylbenzene         | U      |           | 0.123  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,2,3-Trimethylbenzene         | U      |           | 0.0739 | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,3,5-Trimethylbenzene         | U      |           | 0.124  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |

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<br>ug/l | Qualifier  | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|------------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |            | 0.645       | 5.00        | 1        | 04/27/2019 16:21        | <a href="#">WG1272804</a> |
| Vinyl chloride            | 0.392          | <u>JJO</u> | 0.118       | 0.500       | 1        | 04/27/2019 16:21        | <a href="#">WG1272804</a> |
| Xylenes, Total            | U              |            | 0.316       | 1.50        | 1        | 04/27/2019 16:21        | <a href="#">WG1272804</a> |
| (S) Toluene-d8            | 99.1           |            |             | 80.0-120    |          | 04/27/2019 16:21        | <a href="#">WG1272804</a> |
| (S) Toluene-d8            | 99.5           |            |             | 80.0-120    |          | 05/03/2019 14:19        | <a href="#">WG1275623</a> |
| (S) 4-Bromofluorobenzene  | 104            |            |             | 77.0-126    |          | 04/27/2019 16:21        | <a href="#">WG1272804</a> |
| (S) 4-Bromofluorobenzene  | 106            |            |             | 77.0-126    |          | 05/03/2019 14:19        | <a href="#">WG1275623</a> |
| (S) 1,2-Dichloroethane-d4 | 96.0           |            |             | 70.0-130    |          | 04/27/2019 16:21        | <a href="#">WG1272804</a> |
| (S) 1,2-Dichloroethane-d4 | 94.9           |            |             | 70.0-130    |          | 05/03/2019 14:19        | <a href="#">WG1275623</a> |

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        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Benzene                     | 0.291  | J         | 0.0896 | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Bromomethane                | U      | JO        | 0.157  | 2.50  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Chloroethane                | U      | JO        | 7.05   | 125   | 50       | 05/03/2019 16:20 | <a href="#">WG1275623</a> |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Chloromethane               | U      |           | 0.153  | 1.25  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 1,1-Dichloroethane          | U      |           | 5.70   | 25.0  | 50       | 05/03/2019 16:20 | <a href="#">WG1275623</a> |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 1,1-Dichloroethene          | 7.03   |           | 0.188  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| cis-1,2-Dichloroethene      | 710    |           | 4.66   | 25.0  | 50       | 05/03/2019 16:20 | <a href="#">WG1275623</a> |
| trans-1,2-Dichloroethene    | 5.59   |           | 0.152  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Di-isopropyl ether          | U      |           | 0.0924 | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Methylene Chloride          | U      |           | 1.07   | 2.50  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 4-Methyl-2-pentanone (MIBK) | U      |           | 0.823  | 5.00  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Methyl tert-butyl ether     | U      |           | 0.102  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Naphthalene                 | U      |           | 0.174  | 2.50  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| n-Propylbenzene             | U      |           | 0.162  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Styrene                     | U      |           | 0.117  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 1,1,1,2-Tetrachloroethane   | U      |           | 0.120  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 1,1,2,2-Tetrachloroethane   | U      |           | 0.130  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| Tetrachloroethene              | 1500           |           | 9.95        | 25.0        | 50       | 05/03/2019 16:20        | <a href="#">WG1275623</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| 1,1,1-Trichloroethane          | U              |           | 4.70        | 25.0        | 50       | 05/03/2019 16:20        | <a href="#">WG1275623</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| Trichloroethene                | 613            |           | 7.65        | 25.0        | 50       | 05/03/2019 16:20        | <a href="#">WG1275623</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| Vinyl acetate                  | U              |           | 0.645       | 5.00        | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| Vinyl chloride                 | 0.900          | <u>JO</u> | 0.118       | 0.500       | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| (S) Toluene-d8                 | 99.1           |           |             | 80.0-120    |          | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| (S) Toluene-d8                 | 98.7           |           |             | 80.0-120    |          | 05/03/2019 16:20        | <a href="#">WG1275623</a> |
| (S) 4-Bromofluorobenzene       | 104            |           |             | 77.0-126    |          | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| (S) 4-Bromofluorobenzene       | 101            |           |             | 77.0-126    |          | 05/03/2019 16:20        | <a href="#">WG1275623</a> |
| (S) 1,2-Dichloroethane-d4      | 92.1           |           |             | 70.0-130    |          | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| (S) 1,2-Dichloroethane-d4      | 98.9           |           |             | 70.0-130    |          | 05/03/2019 16:20        | <a href="#">WG1275623</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Sample Narrative:

L1093242-03 WG1272804, WG1275623: Not all compounds reportable at lower dilution.

L1093242-03 WG1272804, WG1275623: Cannot be re-analyzed at lower dilution due to high levels of target analytes.



Collected date/time: 04/26/19 00:00

L1093242

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | U              |           | 31.6        | 100         | 1        | 05/01/2019 13:35        | <a href="#">WG1274492</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 92.8           |           |             | 78.0-120    |          | 05/01/2019 13:35        | <a href="#">WG1274492</a> |

- 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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | 1.43           | J         | 1.05        | 25.0        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Acrylonitrile               | U              |           | 0.873       | 5.00        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Benzene                     | U              |           | 0.0896      | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Bromobenzene                | U              |           | 0.133       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Bromodichloromethane        | U              |           | 0.0800      | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Bromochloromethane          | U              |           | 0.145       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Bromoform                   | U              |           | 0.186       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Bromomethane                | U              | JO        | 0.157       | 2.50        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| n-Butylbenzene              | U              |           | 0.143       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| sec-Butylbenzene            | U              |           | 0.134       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| tert-Butylbenzene           | U              |           | 0.183       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Carbon disulfide            | U              |           | 0.101       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Carbon tetrachloride        | U              |           | 0.159       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Chlorobenzene               | U              |           | 0.140       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Chlorodibromomethane        | U              |           | 0.128       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Chloroethane                | U              | JO        | 0.141       | 2.50        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Chloroform                  | U              |           | 0.0860      | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Chloromethane               | U              |           | 0.153       | 1.25        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 2-Chlorotoluene             | U              |           | 0.111       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 4-Chlorotoluene             | U              |           | 0.0972      | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,2-Dibromo-3-Chloropropane | U              |           | 0.325       | 2.50        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,2-Dibromoethane           | U              |           | 0.193       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Dibromomethane              | U              |           | 0.117       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,2-Dichlorobenzene         | U              |           | 0.101       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,3-Dichlorobenzene         | U              |           | 0.130       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,4-Dichlorobenzene         | U              |           | 0.121       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Dichlorodifluoromethane     | U              |           | 0.127       | 2.50        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,1-Dichloroethane          | U              |           | 0.114       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,2-Dichloroethane          | U              |           | 0.108       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,1-Dichloroethene          | U              |           | 0.188       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| cis-1,2-Dichloroethene      | U              |           | 0.0933      | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| trans-1,2-Dichloroethene    | U              |           | 0.152       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,2-Dichloropropane         | U              |           | 0.190       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,1-Dichloropropene         | U              |           | 0.128       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,3-Dichloropropane         | U              |           | 0.147       | 1.00        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| cis-1,3-Dichloropropene     | U              |           | 0.0976      | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| trans-1,3-Dichloropropene   | U              |           | 0.222       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| trans-1,4-Dichloro-2-butene | U              |           | 0.257       | 5.00        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 2,2-Dichloropropane         | U              |           | 0.0929      | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Di-isopropyl ether          | U              |           | 0.0924      | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Ethylbenzene                | U              |           | 0.158       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Hexachloro-1,3-butadiene    | U              |           | 0.157       | 1.00        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 2-Hexanone                  | U              |           | 0.757       | 5.00        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| n-Hexane                    | U              |           | 0.305       | 5.00        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Iodomethane                 | U              |           | 0.377       | 10.0        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Isopropylbenzene            | U              |           | 0.126       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| p-Isopropyltoluene          | U              |           | 0.138       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 2-Butanone (MEK)            | U              |           | 1.28        | 5.00        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |



Collected date/time: 04/26/19 00:00

L1093242

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Vinyl acetate                  | U              |           | 0.645       | 5.00        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Vinyl chloride                 | U              | <u>JO</u> | 0.118       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| (S) Toluene-d8                 | 106            |           |             | 80.0-120    |          | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| (S) 4-Bromofluorobenzene       | 106            |           |             | 77.0-126    |          | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| (S) 1,2-Dichloroethane-d4      | 104            |           |             | 70.0-130    |          | 04/27/2019 11:51        | <a href="#">WG1272804</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | U              |           | 31.6        | 100         | 1        | 05/01/2019 15:59        | <a href="#">WG1274492</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 93.2           |           |             | 78.0-120    |          | 05/01/2019 15:59        | <a href="#">WG1274492</a> |

- 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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | 1.65           | J         | 1.05        | 25.0        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Acrylonitrile               | U              |           | 0.873       | 5.00        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Benzene                     | 0.193          | J         | 0.0896      | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Bromobenzene                | U              |           | 0.133       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Bromodichloromethane        | U              |           | 0.0800      | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Bromochloromethane          | U              |           | 0.145       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Bromoform                   | U              |           | 0.186       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Bromomethane                | U              | JO        | 0.157       | 2.50        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| n-Butylbenzene              | U              |           | 0.143       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| sec-Butylbenzene            | U              |           | 0.134       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| tert-Butylbenzene           | U              |           | 0.183       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Carbon disulfide            | U              |           | 0.101       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Carbon tetrachloride        | U              |           | 0.159       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Chlorobenzene               | U              |           | 0.140       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Chlorodibromomethane        | U              |           | 0.128       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Chloroethane                | U              | JO        | 0.141       | 2.50        | 1        | 05/03/2019 14:59        | <a href="#">WG1275623</a> |
| Chloroform                  | U              |           | 0.0860      | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Chloromethane               | U              |           | 0.153       | 1.25        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 2-Chlorotoluene             | U              |           | 0.111       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 4-Chlorotoluene             | U              |           | 0.0972      | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,2-Dibromo-3-Chloropropane | U              |           | 0.325       | 2.50        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,2-Dibromoethane           | U              |           | 0.193       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Dibromomethane              | U              |           | 0.117       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,2-Dichlorobenzene         | U              |           | 0.101       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,3-Dichlorobenzene         | U              |           | 0.130       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,4-Dichlorobenzene         | U              |           | 0.121       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Dichlorodifluoromethane     | U              |           | 0.127       | 2.50        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,1-Dichloroethane          | U              |           | 0.114       | 0.500       | 1        | 05/03/2019 14:59        | <a href="#">WG1275623</a> |
| 1,2-Dichloroethane          | U              |           | 0.108       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,1-Dichloroethene          | U              |           | 0.188       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| cis-1,2-Dichloroethene      | 1.12           |           | 0.0933      | 0.500       | 1        | 05/03/2019 14:59        | <a href="#">WG1275623</a> |
| trans-1,2-Dichloroethene    | U              |           | 0.152       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,2-Dichloropropane         | U              |           | 0.190       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,1-Dichloropropene         | U              |           | 0.128       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,3-Dichloropropane         | U              |           | 0.147       | 1.00        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| cis-1,3-Dichloropropene     | U              |           | 0.0976      | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| trans-1,3-Dichloropropene   | U              |           | 0.222       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| trans-1,4-Dichloro-2-butene | U              |           | 0.257       | 5.00        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 2,2-Dichloropropane         | U              |           | 0.0929      | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Di-isopropyl ether          | U              |           | 0.0924      | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Ethylbenzene                | U              |           | 0.158       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Hexachloro-1,3-butadiene    | U              |           | 0.157       | 1.00        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 2-Hexanone                  | U              |           | 0.757       | 5.00        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| n-Hexane                    | U              |           | 0.305       | 5.00        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Iodomethane                 | U              |           | 0.377       | 10.0        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Isopropylbenzene            | U              |           | 0.126       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| p-Isopropyltoluene          | U              |           | 0.138       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 2-Butanone (MEK)            | U              |           | 1.28        | 5.00        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |



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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 05/03/2019 14:59        | <a href="#">WG1275623</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 05/03/2019 14:59        | <a href="#">WG1275623</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 05/03/2019 14:59        | <a href="#">WG1275623</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Vinyl acetate                  | U              |           | 0.645       | 5.00        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Vinyl chloride                 | 1.04           | <u>JO</u> | 0.118       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| (S) Toluene-d8                 | 99.1           |           |             | 80.0-120    |          | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| (S) Toluene-d8                 | 98.3           |           |             | 80.0-120    |          | 05/03/2019 14:59        | <a href="#">WG1275623</a> |
| (S) 4-Bromofluorobenzene       | 107            |           |             | 77.0-126    |          | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| (S) 4-Bromofluorobenzene       | 105            |           |             | 77.0-126    |          | 05/03/2019 14:59        | <a href="#">WG1275623</a> |
| (S) 1,2-Dichloroethane-d4      | 94.7           |           |             | 70.0-130    |          | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| (S) 1,2-Dichloroethane-d4      | 93.6           |           |             | 70.0-130    |          | 05/03/2019 14:59        | <a href="#">WG1275623</a> |

- 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 | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 161000 |           | 2710 | 20000 | 1        | 05/04/2019 20:39 | <a href="#">WG1275809</a> |

Sample Narrative:

L1093242-06 WG1275809: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|-------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Chloride | 17100  |           | 51.9 | 1000  | 1        | 04/27/2019 14:05 | <a href="#">WG1272741</a> |
| Nitrate  | U      |           | 22.7 | 100   | 1        | 04/27/2019 14:05 | <a href="#">WG1272741</a> |
| Sulfate  | 175000 |           | 387  | 25000 | 5        | 04/27/2019 14:58 | <a href="#">WG1272741</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 5190   |           | 102  | 1000 | 1        | 04/29/2019 20:23 | <a href="#">WG1273394</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 2910   |           | 15.0  | 100  | 1        | 05/07/2019 23:21 | <a href="#">WG1271844</a> |
| Manganese | 420    |           | 0.250 | 5.00 | 1        | 05/07/2019 23:21 | <a href="#">WG1271844</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 05/01/2019 16:20 | <a href="#">WG1274492</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 93.7   |           |      | 78.0-120 |          | 05/01/2019 16:20 | <a href="#">WG1274492</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 1600   |           | 0.287 | 0.678 | 1        | 05/03/2019 15:20 | <a href="#">WG1275531</a> |
| Ethane  | U      |           | 0.296 | 1.29  | 1        | 05/03/2019 15:20 | <a href="#">WG1275531</a> |
| Ethene  | 3.65   |           | 0.422 | 1.27  | 1        | 05/03/2019 15:20 | <a href="#">WG1275531</a> |

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              | 1.70   | J         | 1.05   | 25.0  | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |
| Benzene              | U      |           | 0.0896 | 0.500 | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |
| Bromomethane         | U      | JO        | 0.157  | 2.50  | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |
| Carbon disulfide     | 0.198  | J         | 0.101  | 0.500 | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |

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      |           |
| Chlorobenzene                  | U      |           | 0.140  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Chlorodibromomethane           | U      |           | 0.128  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Chloroethane                   | U      | JO        | 0.141  | 2.50  | 1        | 05/03/2019 15:19 | WG1275623 |
| Chloroform                     | U      |           | 0.0860 | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Chloromethane                  | U      |           | 0.153  | 1.25  | 1        | 04/27/2019 17:21 | WG1272804 |
| 2-Chlorotoluene                | U      |           | 0.111  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 4-Chlorotoluene                | U      |           | 0.0972 | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,2-Dibromo-3-Chloropropane    | U      |           | 0.325  | 2.50  | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,2-Dibromoethane              | U      |           | 0.193  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Dibromomethane                 | U      |           | 0.117  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,2-Dichlorobenzene            | U      |           | 0.101  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,3-Dichlorobenzene            | U      |           | 0.130  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,4-Dichlorobenzene            | U      |           | 0.121  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Dichlorodifluoromethane        | U      |           | 0.127  | 2.50  | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,1-Dichloroethane             | U      |           | 0.114  | 0.500 | 1        | 05/03/2019 15:19 | WG1275623 |
| 1,2-Dichloroethane             | U      |           | 0.108  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,1-Dichloroethene             | U      |           | 0.188  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| cis-1,2-Dichloroethene         | U      |           | 0.0933 | 0.500 | 1        | 05/03/2019 15:19 | WG1275623 |
| trans-1,2-Dichloroethene       | U      |           | 0.152  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,2-Dichloropropane            | U      |           | 0.190  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,1-Dichloropropene            | U      |           | 0.128  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,3-Dichloropropane            | U      |           | 0.147  | 1.00  | 1        | 04/27/2019 17:21 | WG1272804 |
| cis-1,3-Dichloropropene        | U      |           | 0.0976 | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| trans-1,3-Dichloropropene      | U      |           | 0.222  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| trans-1,4-Dichloro-2-butene    | U      |           | 0.257  | 5.00  | 1        | 04/27/2019 17:21 | WG1272804 |
| 2,2-Dichloropropane            | U      |           | 0.0929 | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Di-isopropyl ether             | U      |           | 0.0924 | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Ethylbenzene                   | U      |           | 0.158  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Hexachloro-1,3-butadiene       | U      |           | 0.157  | 1.00  | 1        | 04/27/2019 17:21 | WG1272804 |
| 2-Hexanone                     | U      |           | 0.757  | 5.00  | 1        | 04/27/2019 17:21 | WG1272804 |
| n-Hexane                       | U      |           | 0.305  | 5.00  | 1        | 04/27/2019 17:21 | WG1272804 |
| Iodomethane                    | U      |           | 0.377  | 10.0  | 1        | 04/27/2019 17:21 | WG1272804 |
| Isopropylbenzene               | U      |           | 0.126  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| p-Isopropyltoluene             | U      |           | 0.138  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 2-Butanone (MEK)               | U      |           | 1.28   | 5.00  | 1        | 04/27/2019 17:21 | WG1272804 |
| Methylene Chloride             | U      |           | 1.07   | 2.50  | 1        | 04/27/2019 17:21 | WG1272804 |
| 4-Methyl-2-pentanone (MIBK)    | U      |           | 0.823  | 5.00  | 1        | 04/27/2019 17:21 | WG1272804 |
| Methyl tert-butyl ether        | U      |           | 0.102  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Naphthalene                    | U      |           | 0.174  | 2.50  | 1        | 04/27/2019 17:21 | WG1272804 |
| n-Propylbenzene                | U      |           | 0.162  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Styrene                        | U      |           | 0.117  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,1,1,2-Tetrachloroethane      | U      |           | 0.120  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,1,2,2-Tetrachloroethane      | U      |           | 0.130  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,1,2-Trichlorotrifluoroethane | U      |           | 0.164  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Tetrachloroethene              | U      |           | 0.199  | 0.500 | 1        | 05/03/2019 15:19 | WG1275623 |
| Toluene                        | U      |           | 0.412  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,2,3-Trichlorobenzene         | U      |           | 0.164  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,2,4-Trichlorobenzene         | U      |           | 0.355  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,1,1-Trichloroethane          | U      |           | 0.0940 | 0.500 | 1        | 05/03/2019 15:19 | WG1275623 |
| 1,1,2-Trichloroethane          | U      |           | 0.186  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Trichloroethene                | U      |           | 0.153  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Trichlorofluoromethane         | U      | JO        | 0.130  | 2.50  | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,2,3-Trichloropropane         | U      |           | 0.247  | 2.50  | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,2,4-Trimethylbenzene         | U      |           | 0.123  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,2,3-Trimethylbenzene         | U      |           | 0.0739 | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,3,5-Trimethylbenzene         | U      |           | 0.124  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |

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<br>ug/l | Qualifier  | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|------------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |            | 0.645       | 5.00        | 1        | 04/27/2019 17:21        | <a href="#">WG1272804</a> |
| Vinyl chloride            | 0.277          | <u>JJO</u> | 0.118       | 0.500       | 1        | 04/27/2019 17:21        | <a href="#">WG1272804</a> |
| Xylenes, Total            | U              |            | 0.316       | 1.50        | 1        | 04/27/2019 17:21        | <a href="#">WG1272804</a> |
| (S) Toluene-d8            | 97.2           |            |             | 80.0-120    |          | 04/27/2019 17:21        | <a href="#">WG1272804</a> |
| (S) Toluene-d8            | 98.2           |            |             | 80.0-120    |          | 05/03/2019 15:19        | <a href="#">WG1275623</a> |
| (S) 4-Bromofluorobenzene  | 103            |            |             | 77.0-126    |          | 04/27/2019 17:21        | <a href="#">WG1272804</a> |
| (S) 4-Bromofluorobenzene  | 99.8           |            |             | 77.0-126    |          | 05/03/2019 15:19        | <a href="#">WG1275623</a> |
| (S) 1,2-Dichloroethane-d4 | 96.1           |            |             | 70.0-130    |          | 04/27/2019 17:21        | <a href="#">WG1272804</a> |
| (S) 1,2-Dichloroethane-d4 | 99.3           |            |             | 70.0-130    |          | 05/03/2019 15:19        | <a href="#">WG1275623</a> |

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 | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|------------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                    | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH      | U      |           | 31.6 | 100      | 1        | 05/01/2019 16:40 | <a href="#">WG1274492</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 93.8   |           |      | 78.0-120 |          | 05/01/2019 16:40 | <a href="#">WG1274492</a> |

- 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        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Benzene                     | 0.179  | J         | 0.0896 | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Bromomethane                | U      | JO        | 0.157  | 2.50  | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Chloroethane                | U      | JO        | 0.141  | 2.50  | 1        | 05/03/2019 15:39 | <a href="#">WG1275623</a> |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Chloromethane               | U      |           | 0.153  | 1.25  | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 1,1-Dichloroethane          | U      |           | 0.114  | 0.500 | 1        | 05/03/2019 15:39 | <a href="#">WG1275623</a> |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 1,1-Dichloroethene          | U      |           | 0.188  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| cis-1,2-Dichloroethene      | 1.23   |           | 0.0933 | 0.500 | 1        | 05/03/2019 15:39 | <a href="#">WG1275623</a> |
| trans-1,2-Dichloroethene    | U      |           | 0.152  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Di-isopropyl ether          | U      |           | 0.0924 | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |



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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 05/03/2019 15:39        | <a href="#">WG1275623</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| Vinyl acetate                  | U              |           | 0.645       | 5.00        | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| Vinyl chloride                 | 1.03           | <u>JO</u> | 0.118       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| (S) Toluene-d8                 | 99.9           |           |             | 80.0-120    |          | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| (S) Toluene-d8                 | 102            |           |             | 80.0-120    |          | 05/03/2019 15:39        | <a href="#">WG1275623</a> |
| (S) 4-Bromofluorobenzene       | 106            |           |             | 77.0-126    |          | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| (S) 4-Bromofluorobenzene       | 103            |           |             | 77.0-126    |          | 05/03/2019 15:39        | <a href="#">WG1275623</a> |
| (S) 1,2-Dichloroethane-d4      | 96.5           |           |             | 70.0-130    |          | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| (S) 1,2-Dichloroethane-d4      | 102            |           |             | 70.0-130    |          | 05/03/2019 15:39        | <a href="#">WG1275623</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | 121            |           | 31.6        | 100         | 1        | 05/01/2019 17:01        | <a href="#">WG1274492</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 94.3           |           |             | 78.0-120    |          | 05/01/2019 17:01        | <a href="#">WG1274492</a> |

- 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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | U              |           | 1.05        | 25.0        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Acrylonitrile               | U              |           | 0.873       | 5.00        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Benzene                     | U              |           | 0.0896      | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Bromobenzene                | U              |           | 0.133       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Bromodichloromethane        | U              |           | 0.0800      | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Bromochloromethane          | U              |           | 0.145       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Bromoform                   | U              |           | 0.186       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Bromomethane                | U              | <u>JO</u> | 0.157       | 2.50        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| n-Butylbenzene              | U              |           | 0.143       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| sec-Butylbenzene            | U              |           | 0.134       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| tert-Butylbenzene           | U              |           | 0.183       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Carbon disulfide            | U              |           | 0.101       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Carbon tetrachloride        | U              |           | 0.159       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Chlorobenzene               | U              |           | 0.140       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Chlorodibromomethane        | U              |           | 0.128       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Chloroethane                | U              | <u>JO</u> | 0.141       | 2.50        | 1        | 05/03/2019 16:00        | <a href="#">WG1275623</a> |
| Chloroform                  | U              |           | 0.0860      | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Chloromethane               | U              |           | 0.153       | 1.25        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 2-Chlorotoluene             | U              |           | 0.111       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 4-Chlorotoluene             | U              |           | 0.0972      | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,2-Dibromo-3-Chloropropane | U              |           | 0.325       | 2.50        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,2-Dibromoethane           | U              |           | 0.193       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Dibromomethane              | U              |           | 0.117       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,2-Dichlorobenzene         | U              |           | 0.101       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,3-Dichlorobenzene         | U              |           | 0.130       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,4-Dichlorobenzene         | U              |           | 0.121       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Dichlorodifluoromethane     | U              |           | 0.127       | 2.50        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,1-Dichloroethane          | 1.57           |           | 0.114       | 0.500       | 1        | 05/03/2019 16:00        | <a href="#">WG1275623</a> |
| 1,2-Dichloroethane          | 0.229          | <u>J</u>  | 0.108       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,1-Dichloroethene          | 0.893          |           | 0.188       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| cis-1,2-Dichloroethene      | 75.1           |           | 0.0933      | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| trans-1,2-Dichloroethene    | 0.261          | <u>J</u>  | 0.152       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,2-Dichloropropane         | 0.878          |           | 0.190       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,1-Dichloropropene         | U              |           | 0.128       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,3-Dichloropropane         | U              |           | 0.147       | 1.00        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| cis-1,3-Dichloropropene     | U              |           | 0.0976      | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| trans-1,3-Dichloropropene   | U              |           | 0.222       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| trans-1,4-Dichloro-2-butene | U              |           | 0.257       | 5.00        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 2,2-Dichloropropane         | U              |           | 0.0929      | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Di-isopropyl ether          | U              |           | 0.0924      | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Ethylbenzene                | U              |           | 0.158       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Hexachloro-1,3-butadiene    | U              |           | 0.157       | 1.00        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 2-Hexanone                  | U              |           | 0.757       | 5.00        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| n-Hexane                    | U              |           | 0.305       | 5.00        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Iodomethane                 | U              |           | 0.377       | 10.0        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Isopropylbenzene            | U              |           | 0.126       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| p-Isopropyltoluene          | U              |           | 0.138       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 2-Butanone (MEK)            | U              |           | 1.28        | 5.00        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |



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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,1,2-Trichlorotrifluoroethane | 0.465          | <u>J</u>  | 0.164       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Tetrachloroethene              | 157            |           | 0.199       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,1,1-Trichloroethane          | 0.298          | <u>J</u>  | 0.0940      | 0.500       | 1        | 05/03/2019 16:00        | <a href="#">WG1275623</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Trichloroethene                | 45.2           |           | 0.153       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Vinyl acetate                  | U              |           | 0.645       | 5.00        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Vinyl chloride                 | 0.861          | <u>JO</u> | 0.118       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| (S) Toluene-d8                 | 98.3           |           |             | 80.0-120    |          | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| (S) Toluene-d8                 | 98.2           |           |             | 80.0-120    |          | 05/03/2019 16:00        | <a href="#">WG1275623</a> |
| (S) 4-Bromofluorobenzene       | 103            |           |             | 77.0-126    |          | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| (S) 4-Bromofluorobenzene       | 103            |           |             | 77.0-126    |          | 05/03/2019 16:00        | <a href="#">WG1275623</a> |
| (S) 1,2-Dichloroethane-d4      | 93.7           |           |             | 70.0-130    |          | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| (S) 1,2-Dichloroethane-d4      | 94.9           |           |             | 70.0-130    |          | 05/03/2019 16:00        | <a href="#">WG1275623</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3408496-1 05/04/19 20:03

| Analyte    | MB Result | MB Qualifier | MB MDL | MB RDL |
|------------|-----------|--------------|--------|--------|
| Alkalinity | 3110      | ↓            | 2710   | 20000  |

Sample Narrative:

BLANK: Endpoint pH 4.5

L1093241-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1093241-01 05/04/19 20:10 • (DUP) R3408496-2 05/04/19 20:17

| Analyte    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------|-----------------|------------|----------|---------|---------------|----------------|
| Alkalinity | 167000          | 167000     | 1        | 0.0717  |               | 20             |

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

L1093601-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1093601-01 05/04/19 22:54 • (DUP) R3408496-4 05/04/19 23:01

| Analyte    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------|-----------------|------------|----------|---------|---------------|----------------|
| Alkalinity | 274000          | 267000     | 1        | 2.59    |               | 20             |

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3408496-3 05/04/19 21:17

| Analyte    | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|------------|--------------|------------|----------|-------------|---------------|
| Alkalinity | 100000       | 102000     | 102      | 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) R3406167-1 04/27/19 09:15

| Analyte  | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------|-----------|--------------|--------|--------|
| Chloride | U         |              | 51.9   | 1000   |
| Nitrate  | U         |              | 22.7   | 100    |
| Sulfate  | U         |              | 77.4   | 5000   |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

L1093227-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1093227-01 04/27/19 11:05 • (DUP) R3406167-3 04/27/19 11:19

| Analyte  | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
| Chloride | 19900           | 19900      | 1        | 0.288   |               | 15             |
| Nitrate  | 996             | 1000       | 1        | 0.351   |               | 15             |
| Sulfate  | 16500           | 16500      | 1        | 0.152   |               | 15             |

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

L1091939-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1091939-06 04/27/19 16:12 • (DUP) R3406167-6 04/27/19 16:27

| Analyte  | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
| Chloride | 5350            | 5330       | 1        | 0.491   |               | 15             |
| Nitrate  | 80.2            | 80.4       | 1        | 0.249   | ↓             | 15             |
| Sulfate  | 14200           | 14200      | 1        | 0.0457  |               | 15             |

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R3406167-2 04/27/19 09:30

| Analyte  | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------|--------------|------------|----------|-------------|---------------|
| Chloride | 40000        | 40200      | 100      | 80.0-120    |               |
| Nitrate  | 8000         | 8250       | 103      | 80.0-120    |               |
| Sulfate  | 40000        | 40900      | 102      | 80.0-120    |               |



L1093227-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1093227-01 04/27/19 11:05 • (MS) R3406167-4 04/27/19 11:34 • (MSD) R3406167-5 04/27/19 11:49

| Analyte  | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MSD Result<br>ug/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Chloride | 50000                | 19900                   | 69200             | 69400              | 98.7         | 99.1          | 1        | 80.0-120         |              |               | 0.273    | 15              |
| Nitrate  | 5000                 | 996                     | 5960              | 5990               | 99.3         | 99.8          | 1        | 80.0-120         |              |               | 0.387    | 15              |
| Sulfate  | 50000                | 16500                   | 66400             | 66500              | 99.7         | 100           | 1        | 80.0-120         |              |               | 0.258    | 15              |

L1091939-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1091939-06 04/27/19 16:12 • (MS) R3406167-7 04/27/19 16:42

| Analyte  | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MS Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier |
|----------|----------------------|-------------------------|-------------------|--------------|----------|------------------|--------------|
| Chloride | 50000                | 5350                    | 55300             | 99.9         | 1        | 80.0-120         |              |
| Nitrate  | 5000                 | 80.2                    | 5020              | 98.7         | 1        | 80.0-120         |              |
| Sulfate  | 50000                | 14200                   | 64300             | 100          | 1        | 80.0-120         |              |

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



Method Blank (MB)

(MB) R3406585-1 04/29/19 11:52

| Analyte                    | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------------------|-----------|--------------|--------|--------|
| TOC (Total Organic Carbon) | 284       | ↓            | 102    | 1000   |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1092770-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1092770-01 04/29/19 13:19 • (DUP) R3406585-3 04/29/19 13:32

| Analyte                    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------------------------|-----------------|------------|----------|---------|---------------|----------------|
| TOC (Total Organic Carbon) | 8240            | 8150       | 1        | 1.15    |               | 20             |

L1093209-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1093209-03 04/29/19 18:04 • (DUP) R3406585-6 04/29/19 18:17

| Analyte                    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------------------------|-----------------|------------|----------|---------|---------------|----------------|
| TOC (Total Organic Carbon) | 4670            | 4640       | 1        | 0.623   |               | 20             |

Laboratory Control Sample (LCS)

(LCS) R3406585-2 04/29/19 12:30

| Analyte                    | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------------------------|--------------|------------|----------|-------------|---------------|
| TOC (Total Organic Carbon) | 75000        | 77000      | 103      | 85.0-115    |               |

L1092865-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1092865-02 04/29/19 16:29 • (MS) R3406585-4 04/29/19 16:45 • (MSD) R3406585-5 04/29/19 17:00

| Analyte                    | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD   | RPD Limits |
|----------------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| TOC (Total Organic Carbon) | 50000        | 2150            | 50400     | 50000      | 96.5    | 95.7     | 1        | 80.0-120    |              |               | 0.836 | 20         |

L1093242-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1093242-06 04/29/19 20:23 • (MS) R3406585-7 04/29/19 20:39 • (MSD) R3406585-8 04/29/19 20:55

| Analyte                    | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD   | RPD Limits |
|----------------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| TOC (Total Organic Carbon) | 50000        | 5190            | 51100     | 51100      | 91.8    | 91.9     | 1        | 80.0-120    |              |               | 0.137 | 20         |



Method Blank (MB)

(MB) R3409057-1 05/07/19 20:17

| Analyte   | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|-----------|-------------------|--------------|----------------|----------------|
| Iron      | 87.3              | ↓            | 15.0           | 100            |
| Manganese | 1.84              | ↓            | 0.250          | 5.00           |

1 Cp

2 Tc

3 Ss

4 Cn

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

(LCS) R3409057-2 05/07/19 20:22 • (LCSD) R3409057-3 05/07/19 20:26

| Analyte   | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-----------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Iron      | 500                  | 449                | 441                 | 89.8          | 88.1           | 80.0-120         |               |                | 1.93     | 20              |
| Manganese | 50.0                 | 45.5               | 44.5                | 91.0          | 89.1           | 80.0-120         |               |                | 2.10     | 20              |

5 Sr

6 Qc

L1092880-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1092880-01 05/07/19 20:31 • (MS) R3409057-5 05/07/19 20:40 • (MSD) R3409057-6 05/07/19 20:45

| Analyte   | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MSD Result<br>ug/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-----------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Iron      | 500                  | 12400                   | 13900             | 13700              | 286          | 251           | 1        | 75.0-125         | ↓            | ↓             | 1.26     | 20              |
| Manganese | 50.0                 | 393                     | 440               | 449                | 93.4         | 111           | 1        | 75.0-125         |              |               | 2.01     | 20              |

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3407469-3 05/01/19 12:30

| Analyte                            | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| Gasoline Range Organics-NWTPH      | U                 |              | 31.6           | 100            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 93.6              |              |                | 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) R3407469-1 05/01/19 11:25 • (LCSD) R3407469-2 05/01/19 11:46

| Analyte                            | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Gasoline Range Organics-NWTPH      | 5500                 | 5370               | 5440                | 97.6          | 98.9           | 70.0-124         |               |                | 1.33     | 20              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                    |                     | 104           | 105            | 78.0-120         |               |                |          |                 |

L1092880-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1092880-01 05/01/19 14:16 • (MS) R3407469-4 05/01/19 19:05 • (MSD) R3407469-5 05/01/19 19:25

| Analyte                            | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MSD Result<br>ug/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Gasoline Range Organics-NWTPH      | 5500                 | U                       | 6290              | 5510               | 114          | 100           | 1        | 10.0-155         |              |               | 13.2     | 21              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                         |                   |                    | 109          | 107           |          | 78.0-120         |              |               |          |                 |



Method Blank (MB)

(MB) R3408007-1 05/03/19 14:19

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------|-----------|--------------|--------|--------|
|         | ug/l      |              | ug/l   | ug/l   |
| Methane | U         |              | 0.287  | 0.678  |
| Ethane  | U         |              | 0.296  | 1.29   |
| Ethene  | U         |              | 0.422  | 1.27   |

L1092924-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1092924-01 05/03/19 14:23 • (DUP) R3408007-2 05/03/19 15:18

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
|         | 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             |

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

(LCS) R3408007-3 05/03/19 15:40 • (LCSD) R3408007-4 05/03/19 15:45

| 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        | %        | %         | %           |               |                | %     | %          |
| Methane | 67.8         | 74.4       | 70.2        | 110      | 104       | 85.0-115    |               |                | 5.87  | 20         |
| Ethane  | 129          | 110        | 110         | 85.6     | 85.2      | 85.0-115    |               |                | 0.467 | 20         |
| Ethene  | 127          | 110        | 109         | 86.3     | 85.9      | 85.0-115    |               |                | 0.532 | 20         |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3407791-2 04/27/19 09:45

| Analyte                     | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>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-1,2-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           |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3407791-2 04/27/19 09:45

| Analyte                        | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>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       | 0.368             | 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          |
| n-Propylbenzene                | U                 |              | 0.162          | 0.500          |
| Styrene                        | U                 |              | 0.117          | 0.500          |
| 1,1,1,2-Tetrachloroethane      | U                 |              | 0.120          | 0.500          |
| Naphthalene                    | U                 |              | 0.174          | 2.50           |
| 1,1,2,2-Tetrachloroethane      | U                 |              | 0.130          | 0.500          |
| Tetrachloroethene              | U                 |              | 0.199          | 0.500          |
| Vinyl acetate                  | U                 |              | 0.645          | 5.00           |
| 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          |
| Toluene                        | U                 |              | 0.412          | 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                 | 99.8              |              |                | 80.0-120       |
| (S) 4-Bromofluorobenzene       | 105               |              |                | 77.0-126       |
| (S) 1,2-Dichloroethane-d4      | 90.5              |              |                | 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) R3407791-1 04/27/19 09:05

| Analyte                     | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> |
|-----------------------------|----------------------|--------------------|---------------|------------------|----------------------|
| Bromochloromethane          | 25.0                 | 23.5               | 93.9          | 76.0-122         |                      |
| Acetone                     | 125                  | 137                | 110           | 19.0-160         |                      |
| Acrylonitrile               | 125                  | 151                | 121           | 55.0-149         |                      |
| Bromobenzene                | 25.0                 | 22.6               | 90.5          | 73.0-121         |                      |
| Bromodichloromethane        | 25.0                 | 21.8               | 87.2          | 75.0-120         |                      |
| Bromoform                   | 25.0                 | 26.8               | 107           | 68.0-132         |                      |
| Bromomethane                | 25.0                 | 18.3               | 73.3          | 10.0-160         |                      |
| trans-1,4-Dichloro-2-butene | 25.0                 | 21.1               | 84.3          | 33.0-144         |                      |
| n-Butylbenzene              | 25.0                 | 21.1               | 84.4          | 73.0-125         |                      |
| sec-Butylbenzene            | 25.0                 | 22.7               | 90.8          | 75.0-125         |                      |
| tert-Butylbenzene           | 25.0                 | 23.5               | 94.0          | 76.0-124         |                      |
| Carbon disulfide            | 25.0                 | 27.0               | 108           | 61.0-128         |                      |
| 2-Hexanone                  | 125                  | 141                | 113           | 67.0-149         |                      |
| Carbon tetrachloride        | 25.0                 | 23.2               | 92.6          | 68.0-126         |                      |
| Chlorobenzene               | 25.0                 | 23.4               | 93.5          | 80.0-121         |                      |
| n-Hexane                    | 25.0                 | 24.5               | 98.2          | 57.0-133         |                      |
| Chlorodibromomethane        | 25.0                 | 23.5               | 94.1          | 77.0-125         |                      |
| Iodomethane                 | 125                  | 131                | 105           | 33.0-147         |                      |
| Chloroethane                | 25.0                 | 17.3               | 69.4          | 47.0-150         |                      |
| Chloroform                  | 25.0                 | 21.7               | 86.8          | 73.0-120         |                      |
| Chloromethane               | 25.0                 | 25.5               | 102           | 41.0-142         |                      |
| 2-Chlorotoluene             | 25.0                 | 22.3               | 89.1          | 76.0-123         |                      |
| Benzene                     | 25.0                 | 25.4               | 102           | 70.0-123         |                      |
| 4-Chlorotoluene             | 25.0                 | 22.5               | 89.8          | 75.0-122         |                      |
| 1,2-Dibromo-3-Chloropropane | 25.0                 | 27.0               | 108           | 58.0-134         |                      |
| 1,2-Dibromoethane           | 25.0                 | 23.1               | 92.4          | 80.0-122         |                      |
| Dibromomethane              | 25.0                 | 22.2               | 88.7          | 80.0-120         |                      |
| 1,2-Dichlorobenzene         | 25.0                 | 23.1               | 92.3          | 79.0-121         |                      |
| 1,3-Dichlorobenzene         | 25.0                 | 22.7               | 90.6          | 79.0-120         |                      |
| 1,4-Dichlorobenzene         | 25.0                 | 21.8               | 87.1          | 79.0-120         |                      |
| Dichlorodifluoromethane     | 25.0                 | 29.6               | 118           | 51.0-149         |                      |
| 1,1-Dichloroethane          | 25.0                 | 23.7               | 94.8          | 70.0-126         |                      |
| 1,2-Dichloroethane          | 25.0                 | 20.3               | 81.1          | 70.0-128         |                      |
| 1,1-Dichloroethene          | 25.0                 | 24.2               | 96.8          | 71.0-124         |                      |
| cis-1,2-Dichloroethene      | 25.0                 | 23.7               | 94.8          | 73.0-120         |                      |
| trans-1,2-Dichloroethene    | 25.0                 | 24.3               | 97.1          | 73.0-120         |                      |
| 1,2-Dichloropropane         | 25.0                 | 25.4               | 102           | 77.0-125         |                      |
| 1,1-Dichloropropene         | 25.0                 | 24.2               | 96.8          | 74.0-126         |                      |
| 1,3-Dichloropropane         | 25.0                 | 24.0               | 96.1          | 80.0-120         |                      |
| cis-1,3-Dichloropropene     | 25.0                 | 23.0               | 92.2          | 80.0-123         |                      |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3407791-1 04/27/19 09:05

| Analyte                        | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> |
|--------------------------------|----------------------|--------------------|---------------|------------------|----------------------|
| Vinyl acetate                  | 125                  | 68.1               | 54.5          | 11.0-160         |                      |
| trans-1,3-Dichloropropene      | 25.0                 | 22.0               | 88.2          | 78.0-124         |                      |
| 2,2-Dichloropropane            | 25.0                 | 27.2               | 109           | 58.0-130         |                      |
| Di-isopropyl ether             | 25.0                 | 26.5               | 106           | 58.0-138         |                      |
| Hexachloro-1,3-butadiene       | 25.0                 | 28.0               | 112           | 54.0-138         |                      |
| Isopropylbenzene               | 25.0                 | 25.0               | 100           | 76.0-127         |                      |
| p-Isopropyltoluene             | 25.0                 | 23.0               | 92.1          | 76.0-125         |                      |
| 2-Butanone (MEK)               | 125                  | 155                | 124           | 44.0-160         |                      |
| Methylene Chloride             | 25.0                 | 24.1               | 96.2          | 67.0-120         |                      |
| 4-Methyl-2-pentanone (MIBK)    | 125                  | 138                | 110           | 68.0-142         |                      |
| Methyl tert-butyl ether        | 25.0                 | 23.6               | 94.2          | 68.0-125         |                      |
| Ethylbenzene                   | 25.0                 | 24.0               | 96.0          | 79.0-123         |                      |
| n-Propylbenzene                | 25.0                 | 22.0               | 88.0          | 77.0-124         |                      |
| Styrene                        | 25.0                 | 26.5               | 106           | 73.0-130         |                      |
| 1,1,1,2-Tetrachloroethane      | 25.0                 | 23.9               | 95.8          | 75.0-125         |                      |
| 1,1,2,2-Tetrachloroethane      | 25.0                 | 20.8               | 83.2          | 65.0-130         |                      |
| Tetrachloroethene              | 25.0                 | 24.9               | 99.8          | 72.0-132         |                      |
| 1,1,2-Trichlorotrifluoroethane | 25.0                 | 22.4               | 89.7          | 69.0-132         |                      |
| 1,2,3-Trichlorobenzene         | 25.0                 | 24.8               | 99.0          | 50.0-138         |                      |
| 1,2,4-Trichlorobenzene         | 25.0                 | 24.9               | 99.6          | 57.0-137         |                      |
| 1,1,1-Trichloroethane          | 25.0                 | 23.5               | 94.0          | 73.0-124         |                      |
| 1,1,2-Trichloroethane          | 25.0                 | 22.3               | 89.2          | 80.0-120         |                      |
| Trichloroethene                | 25.0                 | 26.2               | 105           | 78.0-124         |                      |
| Trichlorofluoromethane         | 25.0                 | 16.4               | 65.5          | 59.0-147         |                      |
| 1,2,3-Trichloropropane         | 25.0                 | 20.3               | 81.3          | 73.0-130         |                      |
| 1,2,3-Trimethylbenzene         | 25.0                 | 21.6               | 86.3          | 77.0-120         |                      |
| 1,2,4-Trimethylbenzene         | 25.0                 | 22.2               | 88.7          | 76.0-121         |                      |
| 1,3,5-Trimethylbenzene         | 25.0                 | 22.2               | 89.0          | 76.0-122         |                      |
| Naphthalene                    | 25.0                 | 24.9               | 99.8          | 54.0-135         |                      |
| Vinyl chloride                 | 25.0                 | 18.5               | 73.8          | 67.0-131         |                      |
| Toluene                        | 25.0                 | 25.3               | 101           | 79.0-120         |                      |
| Xylenes, Total                 | 75.0                 | 72.5               | 96.7          | 79.0-123         |                      |
| (S) Toluene-d8                 |                      |                    | 100           | 80.0-120         |                      |
| (S) 4-Bromofluorobenzene       |                      |                    | 109           | 77.0-126         |                      |
| (S) 1,2-Dichloroethane-d4      |                      |                    | 91.0          | 70.0-130         |                      |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3407938-3 05/03/19 10:11

| Analyte                   | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|---------------------------|-------------------|--------------|----------------|----------------|
| Chloroethane              | U                 |              | 0.141          | 2.50           |
| 1,1-Dichloroethane        | U                 |              | 0.114          | 0.500          |
| cis-1,2-Dichloroethene    | U                 |              | 0.0933         | 0.500          |
| Tetrachloroethene         | U                 |              | 0.199          | 0.500          |
| 1,1,1-Trichloroethane     | U                 |              | 0.0940         | 0.500          |
| Trichloroethene           | U                 |              | 0.153          | 0.500          |
| (S) Toluene-d8            | 96.9              |              |                | 80.0-120       |
| (S) 4-Bromofluorobenzene  | 109               |              |                | 77.0-126       |
| (S) 1,2-Dichloroethane-d4 | 95.5              |              |                | 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) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3407938-1 05/03/19 09:11 • (LCSD) R3407938-2 05/03/19 09:31

| Analyte                   | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Chloroethane              | 25.0                 | 15.9               | 14.4                | 63.6          | 57.6           | 47.0-150         |               |                | 9.85     | 20              |
| 1,1-Dichloroethane        | 25.0                 | 25.7               | 24.0                | 103           | 96.0           | 70.0-126         |               |                | 6.87     | 20              |
| cis-1,2-Dichloroethene    | 25.0                 | 24.0               | 23.2                | 96.1          | 93.0           | 73.0-120         |               |                | 3.33     | 20              |
| Tetrachloroethene         | 25.0                 | 23.8               | 23.6                | 95.2          | 94.3           | 72.0-132         |               |                | 0.966    | 20              |
| 1,1,1-Trichloroethane     | 25.0                 | 24.0               | 23.4                | 96.1          | 93.6           | 73.0-124         |               |                | 2.65     | 20              |
| Trichloroethene           | 25.0                 | 26.0               | 24.9                | 104           | 99.8           | 78.0-124         |               |                | 4.20     | 20              |
| (S) Toluene-d8            |                      |                    |                     | 98.5          | 96.4           | 80.0-120         |               |                |          |                 |
| (S) 4-Bromofluorobenzene  |                      |                    |                     | 107           | 110            | 77.0-126         |               |                |          |                 |
| (S) 1,2-Dichloroethane-d4 |                      |                    |                     | 96.5          | 94.6           | 70.0-130         |               |                |          |                 |



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.  |

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

| Qualifier | Description  |
|-----------|--|
| 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.  |



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 <sup>1</sup>     | n/a              |
| Colorado                | TN00003     | New York                    | 11742            |
| Connecticut             | PH-0197     | North Carolina              | Env375           |
| Florida                 | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                 | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>    | 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 <sup>1,6</sup> | 90010       | South Carolina              | 84004            |
| Kentucky <sup>2</sup>   | 16          | South Dakota                | n/a              |
| Louisiana               | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana <sup>1</sup>  | LA180010    | Texas                       | T104704245-18-15 |
| Maine                   | TN0002      | Texas <sup>5</sup>          | 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 <sup>5</sup> | 1461.02 | DOD                | 1461.01       |
| Canada                        | 1461.01 | USDA               | P330-15-00234 |
| EPA-Crypto                    | TN00003 |                    |               |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**PES Environmental, Inc. -WA**  
**1215 4th Avenue STE 1350**  
**Seattle, WA 98161**

Billing Information:  
**Attn: Accounts Payable**  
**1215 4th 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



Report to:  
**Brian O'Neal/Bill Haldeman**

Email To: **KV/K@PESENV.COM, BHALDEMAN@PESENV.COM**  
**BOneal@pesenv.com** **KSPRINGSTEAD@PESENV.COM**

Project **American Linen**  
 Description:

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):  
*K. Eggas*

Site/Facility ID #  
**American Linen**

P.O. #

Collected by (signature):  
*[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 | *NO3,SO4,Cl* 125mlHDPE-NoPres | Alkalinity 125mlHDPE-NoPres | EEM (RSK175LL) 40mlAmb-HCl | TOC 250mlAmb-HCl | Total Fe Mn 6020 250mlHDPE-HNO3 | VOC (8260) | GRO (NWTPH-Gx) | Remarks | Sample # (lab only) |
|-------------------|-----------|----------|-------|---------|------|--------------|-------------------------------|-----------------------------|----------------------------|------------------|---------------------------------|------------|----------------|---------|---------------------|
| MW106-042619      | Grab      | GW       | 135   | 4/26/19 | 0930 | 12           | X                             | X                           | X                          | X                | X                               | X          | X              |         | -01                 |
| MW145-042619      | Grab      | GW       | 75    |         | 1140 | 12           | X                             | X                           | X                          | X                | X                               | X          | X              |         | 02                  |
| MW110-042619      | Grab      | GW       | 40    |         | 1330 | 3            | X                             | X                           | X                          | X                | X                               | X          | X              |         | 03                  |
| Trip Blank-042619 | Grab      | GW       | —     |         | —    | 1            | X                             | X                           | X                          | X                | X                               | X          | X              |         | 04                  |
|                   | Grab      | GW       |       |         |      |              |                               |                             |                            |                  |                                 |            |                |         |                     |
|                   | Grab      | GW       |       |         |      |              |                               |                             |                            |                  |                                 |            |                |         |                     |
|                   | Grab      | GW       |       |         |      |              |                               |                             |                            |                  |                                 |            |                |         |                     |
|                   | Grab      | GW       |       |         |      |              |                               |                             |                            |                  |                                 |            |                |         |                     |
|                   | Grab      | GW       |       |         |      |              |                               |                             |                            |                  |                                 |            |                |         |                     |

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

Remarks:  
*Tier 2 lab QA/QC*

Samples returned via:  
 UPS  FedEx  Courier

Tracking # **468664707395**

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 Headspace:  Y  N  
 Preservation Correct/Checked:  Y  N  
**RAD SCREEN: <0.5 mR/hr**

Relinquished by: (Signature)  
*[Signature]*

Date: **04-26-19** Time: **1500**

Received by: (Signature)

Trip Blank Received: Yes  No   
 HCL  MeOH  
 TBR

Relinquished by: (Signature)  
*[Signature]*

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature)

Temp: **17.8F °C**  
**3.8 + .1 = 3.9**  
 Bottles Received: **275**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received for lab by: (Signature)  
*B Maxwell*

Date: **4/27/19** Time: **0845**

Hold: \_\_\_\_\_ Condition: **NCF / OK**



**PES Environmental, Inc. -WA**  
**1215 4th Avenue STE 1350**  
**Seattle, WA 98161**

Billing Information:  
**Attn: Accounts Payable**  
**1215 4th Ave STE 1350**  
**Seattle, WA 98161**

Pres  
 Chk

Analysis / Container / Preservative



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: **KUIK@PESENV.COM** **RSPRUGS@PESENV.COM**  
**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):  
*K. Zygas*

Site/Facility ID #  
**American Linen**

P.O. #

Collected by (signature):  
*[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

*Standard TAT*

No. of  
 Cntrs

Immediately Packed on Ice N \_\_\_ Y

| Sample ID                    | Comp/Grab | Matrix * | Depth | Date    | Time | No. of Cntrs | *NO3,SO4,Cl* 125mlHDPE-NoPres | Alkalinity 125mlHDPE-NoPres | EEM (RSK175LL) 40mlAmb-HCl | TOC 250mlAmb-HCl | Total Fe Mn 6020 250mlHDPE-HNO3 | VOC (8260) | GRO (NWTPH-Gx) |
|------------------------------|-----------|----------|-------|---------|------|--------------|-------------------------------|-----------------------------|----------------------------|------------------|---------------------------------|------------|----------------|
| MW-910-042619                | Grab      | GW       | 25    | 4-26-19 | 0815 | 6            |                               |                             |                            |                  |                                 |            |                |
| MW-148-042619                | Grab      | GW       | 75    |         | 0910 | 12           | X                             | X                           | X                          | X                | X                               | X          | X              |
| MW-159-042619                | Grab      | GW       | 25    |         | 1105 | 6            |                               |                             |                            |                  |                                 |            |                |
| MW-9-042619                  | Grab      | GW       | 15    |         | 1300 | 6            |                               |                             |                            |                  |                                 |            |                |
| <del>Trip Blank 042619</del> | Grab      | GW       |       |         |      |              |                               |                             |                            |                  |                                 |            |                |
|                              | Grab      | GW       |       |         |      |              |                               |                             |                            |                  |                                 |            |                |
|                              | Grab      | GW       |       |         |      |              |                               |                             |                            |                  |                                 |            |                |
|                              | Grab      | GW       |       |         |      |              |                               |                             |                            |                  |                                 |            |                |
|                              | Grab      | GW       |       |         |      |              |                               |                             |                            |                  |                                 |            |                |
|                              | Grab      | GW       |       |         |      |              |                               |                             |                            |                  |                                 |            |                |

L # **1093242**  
**E152**  
 Acctnum:  
 Template:  
 Prelogin:  
 TSR:  
 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:

*Tier 2 Lab QA/QC*

pH \_\_\_ Temp \_\_\_

Flow \_\_\_ Other \_\_\_

Samples returned via:

\_\_\_ UPS \_\_\_ FedEx \_\_\_ Courier \_\_\_

Tracking # **408664707395**

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 Headpace:  Y  N  
 Preservation Correct/Checked:  Y  N

**RAD SCREEN: <0.5 MPA/M**

Relinquished by: (Signature)

*[Signature]*

Date:

*04-26-19*

Time:

*1500*

Received by: (Signature)

Trip Blank Received: Yes/No

HCL/MeOH  
 TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: *ABDF°C*  
*3.8+/-0.3*  
 Bottles Received: *30/57*

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

*B Maxwell*

Date:

*4/27/19 0845*

Time:

Hold:

Condition:  
 NCF /  OK



Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 267000 |           | 2710 | 20000 | 1        | 05/04/2019 20:24 | <a href="#">WG1275809</a> |

Sample Narrative:

L1093242-01 WG1275809: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 23600  |           | 51.9 | 1000 | 1        | 04/27/2019 13:06 | <a href="#">WG1272741</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/27/2019 13:06 | <a href="#">WG1272741</a> |
| Sulfate  | 15900  |           | 77.4 | 5000 | 1        | 04/27/2019 13:06 | <a href="#">WG1272741</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 3320   |           | 102  | 1000 | 1        | 04/29/2019 19:55 | <a href="#">WG1273394</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 3420   |           | 15.0  | 100  | 1        | 05/07/2019 23:12 | <a href="#">WG1271844</a> |
| Manganese | 695    |           | 0.250 | 5.00 | 1        | 05/07/2019 23:12 | <a href="#">WG1271844</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 05/01/2019 15:18 | <a href="#">WG1274492</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 92.9   |           |      | 78.0-120 |          | 05/01/2019 15:18 | <a href="#">WG1274492</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 42.1   |           | 0.287 | 0.678 | 1        | 05/03/2019 15:01 | <a href="#">WG1275531</a> |
| Ethane  | U      |           | 0.296 | 1.29  | 1        | 05/03/2019 15:01 | <a href="#">WG1275531</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 05/03/2019 15:01 | <a href="#">WG1275531</a> |

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              | 1.65   | U J       | 1.05   | 25.0  | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |
| Benzene              | U      |           | 0.0896 | 0.500 | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |
| Bromomethane         | U      | UJ JO     | 0.157  | 2.50  | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |
| Carbon disulfide     | 0.142  | J J       | 0.101  | 0.500 | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 04/27/2019 16:01 | <a href="#">WG1272804</a> |

JC 5/13/19

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      |           |
| Chlorobenzene                  | U      |           | 0.140  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Chlorodibromomethane           | U      |           | 0.128  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Chloroethane                   | U      | UJ JO     | 0.141  | 2.50  | 1        | 05/03/2019 13:59 | WG1275623 |
| Chloroform                     | U      |           | 0.0860 | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Chloromethane                  | U      |           | 0.153  | 1.25  | 1        | 04/27/2019 16:01 | WG1272804 |
| 2-Chlorotoluene                | U      |           | 0.111  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 4-Chlorotoluene                | U      |           | 0.0972 | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,2-Dibromo-3-Chloropropane    | U      |           | 0.325  | 2.50  | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,2-Dibromoethane              | U      |           | 0.193  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Dibromomethane                 | U      |           | 0.117  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,2-Dichlorobenzene            | U      |           | 0.101  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,3-Dichlorobenzene            | U      |           | 0.130  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,4-Dichlorobenzene            | U      |           | 0.121  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Dichlorodifluoromethane        | U      |           | 0.127  | 2.50  | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,1-Dichloroethane             | U      |           | 0.114  | 0.500 | 1        | 05/03/2019 13:59 | WG1275623 |
| 1,2-Dichloroethane             | U      |           | 0.108  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,1-Dichloroethene             | U      |           | 0.188  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| cis-1,2-Dichloroethene         | U      |           | 0.0933 | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| trans-1,2-Dichloroethene       | U      |           | 0.152  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,2-Dichloropropane            | U      |           | 0.190  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,1-Dichloropropene            | U      |           | 0.128  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,3-Dichloropropane            | U      |           | 0.147  | 1.00  | 1        | 04/27/2019 16:01 | WG1272804 |
| cis-1,3-Dichloropropene        | U      |           | 0.0976 | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| trans-1,3-Dichloropropene      | U      |           | 0.222  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| trans-1,4-Dichloro-2-butene    | U      |           | 0.257  | 5.00  | 1        | 04/27/2019 16:01 | WG1272804 |
| 2,2-Dichloropropane            | U      |           | 0.0929 | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Di-isopropyl ether             | U      |           | 0.0924 | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Ethylbenzene                   | U      |           | 0.158  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Hexachloro-1,3-butadiene       | U      |           | 0.157  | 1.00  | 1        | 04/27/2019 16:01 | WG1272804 |
| 2-Hexanone                     | U      |           | 0.757  | 5.00  | 1        | 04/27/2019 16:01 | WG1272804 |
| n-Hexane                       | U      |           | 0.305  | 5.00  | 1        | 04/27/2019 16:01 | WG1272804 |
| Iodomethane                    | U      |           | 0.377  | 10.0  | 1        | 04/27/2019 16:01 | WG1272804 |
| Isopropylbenzene               | U      |           | 0.126  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| p-Isopropyltoluene             | U      |           | 0.138  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 2-Butanone (MEK)               | U      |           | 1.28   | 5.00  | 1        | 04/27/2019 16:01 | WG1272804 |
| Methylene Chloride             | U      |           | 1.07   | 2.50  | 1        | 04/27/2019 16:01 | WG1272804 |
| 4-Methyl-2-pentanone (MIBK)    | U      |           | 0.823  | 5.00  | 1        | 04/27/2019 16:01 | WG1272804 |
| Methyl tert-butyl ether        | U      |           | 0.102  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Naphthalene                    | U      |           | 0.174  | 2.50  | 1        | 04/27/2019 16:01 | WG1272804 |
| n-Propylbenzene                | U      |           | 0.162  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Styrene                        | U      |           | 0.117  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,1,1,2-Tetrachloroethane      | U      |           | 0.120  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,1,2,2-Tetrachloroethane      | U      |           | 0.130  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,1,2-Trichlorotrifluoroethane | U      |           | 0.164  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Tetrachloroethene              | U      |           | 0.199  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Toluene                        | U      |           | 0.412  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,2,3-Trichlorobenzene         | U      |           | 0.164  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,2,4-Trichlorobenzene         | U      |           | 0.355  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,1,1-Trichloroethane          | U      |           | 0.0940 | 0.500 | 1        | 05/03/2019 13:59 | WG1275623 |
| 1,1,2-Trichloroethane          | U      |           | 0.186  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Trichloroethene                | U      |           | 0.153  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| Trichlorofluoromethane         | U      | UJ JO     | 0.130  | 2.50  | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,2,3-Trichloropropane         | U      |           | 0.247  | 2.50  | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,2,4-Trimethylbenzene         | U      |           | 0.123  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,2,3-Trimethylbenzene         | U      |           | 0.0739 | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |
| 1,3,5-Trimethylbenzene         | U      |           | 0.124  | 0.500 | 1        | 04/27/2019 16:01 | WG1272804 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/13/19



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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 04/27/2019 16:01        | <a href="#">WG1272804</a> |
| Vinyl chloride            | U              | UJ JO     | 0.118       | 0.500       | 1        | 04/27/2019 16:01        | <a href="#">WG1272804</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/27/2019 16:01        | <a href="#">WG1272804</a> |
| (S) Toluene-d8            | 97.8           |           |             | 80.0-120    |          | 04/27/2019 16:01        | <a href="#">WG1272804</a> |
| (S) Toluene-d8            | 96.7           |           |             | 80.0-120    |          | 05/03/2019 13:59        | <a href="#">WG1275623</a> |
| (S) 4-Bromofluorobenzene  | 105            |           |             | 77.0-126    |          | 04/27/2019 16:01        | <a href="#">WG1272804</a> |
| (S) 4-Bromofluorobenzene  | 104            |           |             | 77.0-126    |          | 05/03/2019 13:59        | <a href="#">WG1275623</a> |
| (S) 1,2-Dichloroethane-d4 | 96.8           |           |             | 70.0-130    |          | 04/27/2019 16:01        | <a href="#">WG1272804</a> |
| (S) 1,2-Dichloroethane-d4 | 94.6           |           |             | 70.0-130    |          | 05/03/2019 13:59        | <a href="#">WG1275623</a> |

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

JC 5/13/19



Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 287000 |           | 2710 | 20000 | 1        | 05/04/2019 20:31 | <a href="#">WG1275809</a> |

Sample Narrative:

L1093242-02 WG1275809: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 44700  |           | 51.9 | 1000 | 1        | 04/27/2019 13:21 | <a href="#">WG1272741</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 04/27/2019 13:21 | <a href="#">WG1272741</a> |
| Sulfate  | 73900  |           | 77.4 | 5000 | 1        | 04/27/2019 13:21 | <a href="#">WG1272741</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 5290   |           | 102  | 1000 | 1        | 04/29/2019 20:10 | <a href="#">WG1273394</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 5730   |           | 15.0  | 100  | 1        | 05/07/2019 23:17 | <a href="#">WG1271844</a> |
| Manganese | 318    |           | 0.250 | 5.00 | 1        | 05/07/2019 23:17 | <a href="#">WG1271844</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 05/01/2019 15:38 | <a href="#">WG1274492</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 93.9   |           |      | 78.0-120 |          | 05/01/2019 15:38 | <a href="#">WG1274492</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 455    |           | 0.287 | 0.678 | 1        | 05/03/2019 15:15 | <a href="#">WG1275531</a> |
| Ethane  | 1.73   |           | 0.296 | 1.29  | 1        | 05/03/2019 15:15 | <a href="#">WG1275531</a> |
| Ethene  | 5.24   |           | 0.422 | 1.27  | 1        | 05/03/2019 15:15 | <a href="#">WG1275531</a> |

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

| Analyte              | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch                                |
|----------------------|--------|-----------|--------|-------|----------|------------------|--------------------------------------|
|                      | ug/l   |           | ug/l   | ug/l  |          | date / time      |                                      |
| Acetone              | 3.01   | U J       | 1.05   | 25.0  | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a>            |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a>            |
| Benzene              | U      |           | 0.0896 | 0.500 | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a>            |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a>            |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a>            |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a>            |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a>            |
| Bromomethane         | U      | UJ JO     | 0.157  | 2.50  | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a>            |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a>            |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a> JC 5/13/19 |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a>            |
| Carbon disulfide     | 0.365  | J J       | 0.101  | 0.500 | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a>            |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 04/27/2019 16:21 | <a href="#">WG1272804</a>            |

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      |           |
| Chlorobenzene                  | U      |           | 0.140  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Chlorodibromomethane           | U      |           | 0.128  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Chloroethane                   | U      | UJ JO     | 0.141  | 2.50  | 1        | 05/03/2019 14:19 | WG1275623 |
| Chloroform                     | U      |           | 0.0860 | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Chloromethane                  | U      |           | 0.153  | 1.25  | 1        | 04/27/2019 16:21 | WG1272804 |
| 2-Chlorotoluene                | U      |           | 0.111  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 4-Chlorotoluene                | U      |           | 0.0972 | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,2-Dibromo-3-Chloropropane    | U      |           | 0.325  | 2.50  | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,2-Dibromoethane              | U      |           | 0.193  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Dibromomethane                 | U      |           | 0.117  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,2-Dichlorobenzene            | U      |           | 0.101  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,3-Dichlorobenzene            | U      |           | 0.130  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,4-Dichlorobenzene            | U      |           | 0.121  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Dichlorodifluoromethane        | U      |           | 0.127  | 2.50  | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,1-Dichloroethane             | U      |           | 0.114  | 0.500 | 1        | 05/03/2019 14:19 | WG1275623 |
| 1,2-Dichloroethane             | U      |           | 0.108  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,1-Dichloroethene             | U      |           | 0.188  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| cis-1,2-Dichloroethene         | U      |           | 0.0933 | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| trans-1,2-Dichloroethene       | U      |           | 0.152  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,2-Dichloropropane            | U      |           | 0.190  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,1-Dichloropropene            | U      |           | 0.128  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,3-Dichloropropane            | U      |           | 0.147  | 1.00  | 1        | 04/27/2019 16:21 | WG1272804 |
| cis-1,3-Dichloropropene        | U      |           | 0.0976 | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| trans-1,3-Dichloropropene      | U      |           | 0.222  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| trans-1,4-Dichloro-2-butene    | U      |           | 0.257  | 5.00  | 1        | 04/27/2019 16:21 | WG1272804 |
| 2,2-Dichloropropane            | U      |           | 0.0929 | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Di-isopropyl ether             | U      |           | 0.0924 | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Ethylbenzene                   | U      |           | 0.158  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Hexachloro-1,3-butadiene       | U      |           | 0.157  | 1.00  | 1        | 04/27/2019 16:21 | WG1272804 |
| 2-Hexanone                     | U      |           | 0.757  | 5.00  | 1        | 04/27/2019 16:21 | WG1272804 |
| n-Hexane                       | U      |           | 0.305  | 5.00  | 1        | 04/27/2019 16:21 | WG1272804 |
| Iodomethane                    | U      |           | 0.377  | 10.0  | 1        | 04/27/2019 16:21 | WG1272804 |
| Isopropylbenzene               | U      |           | 0.126  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| p-Isopropyltoluene             | U      |           | 0.138  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 2-Butanone (MEK)               | U      |           | 1.28   | 5.00  | 1        | 04/27/2019 16:21 | WG1272804 |
| Methylene Chloride             | U      |           | 1.07   | 2.50  | 1        | 04/27/2019 16:21 | WG1272804 |
| 4-Methyl-2-pentanone (MIBK)    | U      |           | 0.823  | 5.00  | 1        | 04/27/2019 16:21 | WG1272804 |
| Methyl tert-butyl ether        | U      |           | 0.102  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Naphthalene                    | U      |           | 0.174  | 2.50  | 1        | 04/27/2019 16:21 | WG1272804 |
| n-Propylbenzene                | U      |           | 0.162  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Styrene                        | U      |           | 0.117  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,1,1,2-Tetrachloroethane      | U      |           | 0.120  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,1,2,2-Tetrachloroethane      | U      |           | 0.130  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,1,2-Trichlorotrifluoroethane | U      |           | 0.164  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Tetrachloroethene              | U      |           | 0.199  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Toluene                        | U      |           | 0.412  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,2,3-Trichlorobenzene         | U      |           | 0.164  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,2,4-Trichlorobenzene         | U      |           | 0.355  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,1,1-Trichloroethane          | U      |           | 0.0940 | 0.500 | 1        | 05/03/2019 14:19 | WG1275623 |
| 1,1,2-Trichloroethane          | U      |           | 0.186  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Trichloroethene                | U      |           | 0.153  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| Trichlorofluoromethane         | U      | UJ JO     | 0.130  | 2.50  | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,2,3-Trichloropropane         | U      |           | 0.247  | 2.50  | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,2,4-Trimethylbenzene         | U      |           | 0.123  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,2,3-Trimethylbenzene         | U      |           | 0.0739 | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |
| 1,3,5-Trimethylbenzene         | U      |           | 0.124  | 0.500 | 1        | 04/27/2019 16:21 | WG1272804 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/13/19



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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 04/27/2019 16:21        | <a href="#">WG1272804</a> |
| Vinyl chloride            | 0.392          | J JJ0     | 0.118       | 0.500       | 1        | 04/27/2019 16:21        | <a href="#">WG1272804</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/27/2019 16:21        | <a href="#">WG1272804</a> |
| (S) Toluene-d8            | 99.1           |           |             | 80.0-120    |          | 04/27/2019 16:21        | <a href="#">WG1272804</a> |
| (S) Toluene-d8            | 99.5           |           |             | 80.0-120    |          | 05/03/2019 14:19        | <a href="#">WG1275623</a> |
| (S) 4-Bromofluorobenzene  | 104            |           |             | 77.0-126    |          | 04/27/2019 16:21        | <a href="#">WG1272804</a> |
| (S) 4-Bromofluorobenzene  | 106            |           |             | 77.0-126    |          | 05/03/2019 14:19        | <a href="#">WG1275623</a> |
| (S) 1,2-Dichloroethane-d4 | 96.0           |           |             | 70.0-130    |          | 04/27/2019 16:21        | <a href="#">WG1272804</a> |
| (S) 1,2-Dichloroethane-d4 | 94.9           |           |             | 70.0-130    |          | 05/03/2019 14:19        | <a href="#">WG1275623</a> |

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

JC 5/13/19



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        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Benzene                     | 0.291  | J J       | 0.0896 | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Bromomethane                | U      | UJ JO     | 0.157  | 2.50  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Chloroethane                | U      | UJ JO     | 7.05   | 125   | 50       | 05/03/2019 16:20 | <a href="#">WG1275623</a> |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Chloromethane               | U      |           | 0.153  | 1.25  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 1,1-Dichloroethane          | U      |           | 5.70   | 25.0  | 50       | 05/03/2019 16:20 | <a href="#">WG1275623</a> |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 1,1-Dichloroethene          | 7.03   |           | 0.188  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| cis-1,2-Dichloroethene      | 710    |           | 4.66   | 25.0  | 50       | 05/03/2019 16:20 | <a href="#">WG1275623</a> |
| trans-1,2-Dichloroethene    | 5.59   |           | 0.152  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Di-isopropyl ether          | U      |           | 0.0924 | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Methylene Chloride          | U      |           | 1.07   | 2.50  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 4-Methyl-2-pentanone (MIBK) | U      |           | 0.823  | 5.00  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Methyl tert-butyl ether     | U      |           | 0.102  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Naphthalene                 | U      |           | 0.174  | 2.50  | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| n-Propylbenzene             | U      |           | 0.162  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| Styrene                     | U      |           | 0.117  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 1,1,1,2-Tetrachloroethane   | U      |           | 0.120  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |
| 1,1,2,2-Tetrachloroethane   | U      |           | 0.130  | 0.500 | 1        | 04/27/2019 16:41 | <a href="#">WG1272804</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/13/19



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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| Tetrachloroethene              | 1500           |           | 9.95        | 25.0        | 50       | 05/03/2019 16:20        | <a href="#">WG1275623</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| 1,1,1-Trichloroethane          | U              |           | 4.70        | 25.0        | 50       | 05/03/2019 16:20        | <a href="#">WG1275623</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| Trichloroethene                | 613            |           | 7.65        | 25.0        | 50       | 05/03/2019 16:20        | <a href="#">WG1275623</a> |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| Vinyl acetate                  | U              |           | 0.645       | 5.00        | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| Vinyl chloride                 | 0.900          | J JO      | 0.118       | 0.500       | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| (S) Toluene-d8                 | 99.1           |           |             | 80.0-120    |          | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| (S) Toluene-d8                 | 98.7           |           |             | 80.0-120    |          | 05/03/2019 16:20        | <a href="#">WG1275623</a> |
| (S) 4-Bromofluorobenzene       | 104            |           |             | 77.0-126    |          | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| (S) 4-Bromofluorobenzene       | 101            |           |             | 77.0-126    |          | 05/03/2019 16:20        | <a href="#">WG1275623</a> |
| (S) 1,2-Dichloroethane-d4      | 92.1           |           |             | 70.0-130    |          | 04/27/2019 16:41        | <a href="#">WG1272804</a> |
| (S) 1,2-Dichloroethane-d4      | 98.9           |           |             | 70.0-130    |          | 05/03/2019 16:20        | <a href="#">WG1275623</a> |

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

Sample Narrative:

JC 5/13/19

L1093242-03 WG1272804, WG1275623: Not all compounds reportable at lower dilution.

L1093242-03 WG1272804, WG1275623: Cannot be re-analyzed at lower dilution due to high levels of target analytes.



Collected date/time: 04/26/19 00:00

L1093242

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 05/01/2019 13:35 | <a href="#">WG1274492</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 92.8   |           |      | 78.0-120 |          | 05/01/2019 13:35 | <a href="#">WG1274492</a> |

- 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                     | 1.43   | J         | 1.05   | 25.0  | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| Benzene                     | U      |           | 0.0896 | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| Bromomethane                | U      | UJ JO     | 0.157  | 2.50  | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| Chloroethane                | U      | UJ JO     | 0.141  | 2.50  | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| Chloromethane               | U      |           | 0.153  | 1.25  | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| 1,1-Dichloroethane          | U      |           | 0.114  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| 1,1-Dichloroethene          | U      |           | 0.188  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| cis-1,2-Dichloroethene      | U      |           | 0.0933 | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| trans-1,2-Dichloroethene    | U      |           | 0.152  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| Di-isopropyl ether          | U      |           | 0.0924 | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 04/27/2019 11:51 | <a href="#">WG1272804</a> |

JC 5/13/19





Collected date/time: 04/26/19 00:00

L1093242

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Vinyl acetate                  | U              |           | 0.645       | 5.00        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Vinyl chloride                 | U              | UJ JO     | 0.118       | 0.500       | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| (S) Toluene-d8                 | 106            |           |             | 80.0-120    |          | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| (S) 4-Bromofluorobenzene       | 106            |           |             | 77.0-126    |          | 04/27/2019 11:51        | <a href="#">WG1272804</a> |
| (S) 1,2-Dichloroethane-d4      | 104            |           |             | 70.0-130    |          | 04/27/2019 11:51        | <a href="#">WG1272804</a> |

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

JC 5/13/19



Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | U              |           | 31.6        | 100         | 1        | 05/01/2019 15:59        | <a href="#">WG1274492</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 93.2           |           |             | 78.0-120    |          | 05/01/2019 15:59        | <a href="#">WG1274492</a> |

- 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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | 1.65           | U J       | 1.05        | 25.0        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Acrylonitrile               | U              |           | 0.873       | 5.00        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Benzene                     | 0.193          | J J       | 0.0896      | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Bromobenzene                | U              |           | 0.133       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Bromodichloromethane        | U              |           | 0.0800      | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Bromochloromethane          | U              |           | 0.145       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Bromoform                   | U              |           | 0.186       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Bromomethane                | U              | UJ JO     | 0.157       | 2.50        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| n-Butylbenzene              | U              |           | 0.143       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| sec-Butylbenzene            | U              |           | 0.134       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| tert-Butylbenzene           | U              |           | 0.183       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Carbon disulfide            | U              |           | 0.101       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Carbon tetrachloride        | U              |           | 0.159       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Chlorobenzene               | U              |           | 0.140       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Chlorodibromomethane        | U              |           | 0.128       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Chloroethane                | U              | UJ JO     | 0.141       | 2.50        | 1        | 05/03/2019 14:59        | <a href="#">WG1275623</a> |
| Chloroform                  | U              |           | 0.0860      | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Chloromethane               | U              |           | 0.153       | 1.25        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 2-Chlorotoluene             | U              |           | 0.111       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 4-Chlorotoluene             | U              |           | 0.0972      | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,2-Dibromo-3-Chloropropane | U              |           | 0.325       | 2.50        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,2-Dibromoethane           | U              |           | 0.193       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Dibromomethane              | U              |           | 0.117       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,2-Dichlorobenzene         | U              |           | 0.101       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,3-Dichlorobenzene         | U              |           | 0.130       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,4-Dichlorobenzene         | U              |           | 0.121       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Dichlorodifluoromethane     | U              |           | 0.127       | 2.50        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,1-Dichloroethane          | U              |           | 0.114       | 0.500       | 1        | 05/03/2019 14:59        | <a href="#">WG1275623</a> |
| 1,2-Dichloroethane          | U              |           | 0.108       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,1-Dichloroethene          | U              |           | 0.188       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| cis-1,2-Dichloroethene      | 1.12           |           | 0.0933      | 0.500       | 1        | 05/03/2019 14:59        | <a href="#">WG1275623</a> |
| trans-1,2-Dichloroethene    | U              |           | 0.152       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,2-Dichloropropane         | U              |           | 0.190       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,1-Dichloropropene         | U              |           | 0.128       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,3-Dichloropropane         | U              |           | 0.147       | 1.00        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| cis-1,3-Dichloropropene     | U              |           | 0.0976      | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| trans-1,3-Dichloropropene   | U              |           | 0.222       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| trans-1,4-Dichloro-2-butene | U              |           | 0.257       | 5.00        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 2,2-Dichloropropane         | U              |           | 0.0929      | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Di-isopropyl ether          | U              |           | 0.0924      | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Ethylbenzene                | U              |           | 0.158       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Hexachloro-1,3-butadiene    | U              |           | 0.157       | 1.00        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 2-Hexanone                  | U              |           | 0.757       | 5.00        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| n-Hexane                    | U              |           | 0.305       | 5.00        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Iodomethane                 | U              |           | 0.377       | 10.0        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Isopropylbenzene            | U              |           | 0.126       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| p-Isopropyltoluene          | U              |           | 0.138       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 2-Butanone (MEK)            | U              |           | 1.28        | 5.00        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |

JC 5/13/19



Collected date/time: 04/26/19 08:15

L1093242

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 05/03/2019 14:59        | <a href="#">WG1275623</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 05/03/2019 14:59        | <a href="#">WG1275623</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 05/03/2019 14:59        | <a href="#">WG1275623</a> |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Vinyl acetate                  | U              |           | 0.645       | 5.00        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Vinyl chloride                 | 1.04           | J JO      | 0.118       | 0.500       | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| (S) Toluene-d8                 | 99.1           |           |             | 80.0-120    |          | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| (S) Toluene-d8                 | 98.3           |           |             | 80.0-120    |          | 05/03/2019 14:59        | <a href="#">WG1275623</a> |
| (S) 4-Bromofluorobenzene       | 107            |           |             | 77.0-126    |          | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| (S) 4-Bromofluorobenzene       | 105            |           |             | 77.0-126    |          | 05/03/2019 14:59        | <a href="#">WG1275623</a> |
| (S) 1,2-Dichloroethane-d4      | 94.7           |           |             | 70.0-130    |          | 04/27/2019 17:01        | <a href="#">WG1272804</a> |
| (S) 1,2-Dichloroethane-d4      | 93.6           |           |             | 70.0-130    |          | 05/03/2019 14:59        | <a href="#">WG1275623</a> |

JC 5/13/19

- 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 | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 161000 |           | 2710 | 20000 | 1        | 05/04/2019 20:39 | <a href="#">WG1275809</a> |

Sample Narrative:

L1093242-06 WG1275809: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|-------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Chloride | 17100  |           | 51.9 | 1000  | 1        | 04/27/2019 14:05 | <a href="#">WG1272741</a> |
| Nitrate  | U      |           | 22.7 | 100   | 1        | 04/27/2019 14:05 | <a href="#">WG1272741</a> |
| Sulfate  | 175000 |           | 387  | 25000 | 5        | 04/27/2019 14:58 | <a href="#">WG1272741</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 5190   |           | 102  | 1000 | 1        | 04/29/2019 20:23 | <a href="#">WG1273394</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 2910   |           | 15.0  | 100  | 1        | 05/07/2019 23:21 | <a href="#">WG1271844</a> |
| Manganese | 420    |           | 0.250 | 5.00 | 1        | 05/07/2019 23:21 | <a href="#">WG1271844</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 05/01/2019 16:20 | <a href="#">WG1274492</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 93.7   |           |      | 78.0-120 |          | 05/01/2019 16:20 | <a href="#">WG1274492</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 1600   |           | 0.287 | 0.678 | 1        | 05/03/2019 15:20 | <a href="#">WG1275531</a> |
| Ethane  | U      |           | 0.296 | 1.29  | 1        | 05/03/2019 15:20 | <a href="#">WG1275531</a> |
| Ethene  | 3.65   |           | 0.422 | 1.27  | 1        | 05/03/2019 15:20 | <a href="#">WG1275531</a> |

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              | 1.70   | U J       | 1.05   | 25.0  | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |
| Benzene              | U      |           | 0.0896 | 0.500 | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |
| Bromomethane         | U      | UJ JO     | 0.157  | 2.50  | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |
| Carbon disulfide     | 0.198  | J J       | 0.101  | 0.500 | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 04/27/2019 17:21 | <a href="#">WG1272804</a> |

JC 5/13/19

- 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      |           |
| Chlorobenzene                  | U      |           | 0.140  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Chlorodibromomethane           | U      |           | 0.128  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Chloroethane                   | U      | UJ JO     | 0.141  | 2.50  | 1        | 05/03/2019 15:19 | WG1275623 |
| Chloroform                     | U      |           | 0.0860 | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Chloromethane                  | U      |           | 0.153  | 1.25  | 1        | 04/27/2019 17:21 | WG1272804 |
| 2-Chlorotoluene                | U      |           | 0.111  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 4-Chlorotoluene                | U      |           | 0.0972 | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,2-Dibromo-3-Chloropropane    | U      |           | 0.325  | 2.50  | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,2-Dibromoethane              | U      |           | 0.193  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Dibromomethane                 | U      |           | 0.117  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,2-Dichlorobenzene            | U      |           | 0.101  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,3-Dichlorobenzene            | U      |           | 0.130  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,4-Dichlorobenzene            | U      |           | 0.121  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Dichlorodifluoromethane        | U      |           | 0.127  | 2.50  | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,1-Dichloroethane             | U      |           | 0.114  | 0.500 | 1        | 05/03/2019 15:19 | WG1275623 |
| 1,2-Dichloroethane             | U      |           | 0.108  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,1-Dichloroethene             | U      |           | 0.188  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| cis-1,2-Dichloroethene         | U      |           | 0.0933 | 0.500 | 1        | 05/03/2019 15:19 | WG1275623 |
| trans-1,2-Dichloroethene       | U      |           | 0.152  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,2-Dichloropropane            | U      |           | 0.190  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,1-Dichloropropene            | U      |           | 0.128  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,3-Dichloropropane            | U      |           | 0.147  | 1.00  | 1        | 04/27/2019 17:21 | WG1272804 |
| cis-1,3-Dichloropropene        | U      |           | 0.0976 | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| trans-1,3-Dichloropropene      | U      |           | 0.222  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| trans-1,4-Dichloro-2-butene    | U      |           | 0.257  | 5.00  | 1        | 04/27/2019 17:21 | WG1272804 |
| 2,2-Dichloropropane            | U      |           | 0.0929 | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Di-isopropyl ether             | U      |           | 0.0924 | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Ethylbenzene                   | U      |           | 0.158  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Hexachloro-1,3-butadiene       | U      |           | 0.157  | 1.00  | 1        | 04/27/2019 17:21 | WG1272804 |
| 2-Hexanone                     | U      |           | 0.757  | 5.00  | 1        | 04/27/2019 17:21 | WG1272804 |
| n-Hexane                       | U      |           | 0.305  | 5.00  | 1        | 04/27/2019 17:21 | WG1272804 |
| Iodomethane                    | U      |           | 0.377  | 10.0  | 1        | 04/27/2019 17:21 | WG1272804 |
| Isopropylbenzene               | U      |           | 0.126  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| p-Isopropyltoluene             | U      |           | 0.138  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 2-Butanone (MEK)               | U      |           | 1.28   | 5.00  | 1        | 04/27/2019 17:21 | WG1272804 |
| Methylene Chloride             | U      |           | 1.07   | 2.50  | 1        | 04/27/2019 17:21 | WG1272804 |
| 4-Methyl-2-pentanone (MIBK)    | U      |           | 0.823  | 5.00  | 1        | 04/27/2019 17:21 | WG1272804 |
| Methyl tert-butyl ether        | U      |           | 0.102  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Naphthalene                    | U      |           | 0.174  | 2.50  | 1        | 04/27/2019 17:21 | WG1272804 |
| n-Propylbenzene                | U      |           | 0.162  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Styrene                        | U      |           | 0.117  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,1,1,2-Tetrachloroethane      | U      |           | 0.120  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,1,2,2-Tetrachloroethane      | U      |           | 0.130  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,1,2-Trichlorotrifluoroethane | U      |           | 0.164  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Tetrachloroethene              | U      |           | 0.199  | 0.500 | 1        | 05/03/2019 15:19 | WG1275623 |
| Toluene                        | U      |           | 0.412  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,2,3-Trichlorobenzene         | U      |           | 0.164  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,2,4-Trichlorobenzene         | U      |           | 0.355  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,1,1-Trichloroethane          | U      |           | 0.0940 | 0.500 | 1        | 05/03/2019 15:19 | WG1275623 |
| 1,1,2-Trichloroethane          | U      |           | 0.186  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Trichloroethene                | U      |           | 0.153  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| Trichlorofluoromethane         | U      | UJ JO     | 0.130  | 2.50  | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,2,3-Trichloropropane         | U      |           | 0.247  | 2.50  | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,2,4-Trimethylbenzene         | U      |           | 0.123  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,2,3-Trimethylbenzene         | U      |           | 0.0739 | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |
| 1,3,5-Trimethylbenzene         | U      |           | 0.124  | 0.500 | 1        | 04/27/2019 17:21 | WG1272804 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/13/19



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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 04/27/2019 17:21        | <a href="#">WG1272804</a> |
| Vinyl chloride            | 0.277          | J JJ0     | 0.118       | 0.500       | 1        | 04/27/2019 17:21        | <a href="#">WG1272804</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 04/27/2019 17:21        | <a href="#">WG1272804</a> |
| (S) Toluene-d8            | 97.2           |           |             | 80.0-120    |          | 04/27/2019 17:21        | <a href="#">WG1272804</a> |
| (S) Toluene-d8            | 98.2           |           |             | 80.0-120    |          | 05/03/2019 15:19        | <a href="#">WG1275623</a> |
| (S) 4-Bromofluorobenzene  | 103            |           |             | 77.0-126    |          | 04/27/2019 17:21        | <a href="#">WG1272804</a> |
| (S) 4-Bromofluorobenzene  | 99.8           |           |             | 77.0-126    |          | 05/03/2019 15:19        | <a href="#">WG1275623</a> |
| (S) 1,2-Dichloroethane-d4 | 96.1           |           |             | 70.0-130    |          | 04/27/2019 17:21        | <a href="#">WG1272804</a> |
| (S) 1,2-Dichloroethane-d4 | 99.3           |           |             | 70.0-130    |          | 05/03/2019 15:19        | <a href="#">WG1275623</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/13/19



Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|------------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                    | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH      | U      |           | 31.6 | 100      | 1        | 05/01/2019 16:40 | <a href="#">WG1274492</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 93.8   |           |      | 78.0-120 |          | 05/01/2019 16:40 | <a href="#">WG1274492</a> |

- 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        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Benzene                     | 0.179  | J J       | 0.0896 | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Bromomethane                | U      | UJ JO     | 0.157  | 2.50  | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Chloroethane                | U      | UJ JO     | 0.141  | 2.50  | 1        | 05/03/2019 15:39 | <a href="#">WG1275623</a> |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Chloromethane               | U      |           | 0.153  | 1.25  | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 1,1-Dichloroethane          | U      |           | 0.114  | 0.500 | 1        | 05/03/2019 15:39 | <a href="#">WG1275623</a> |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 1,1-Dichloroethene          | U      |           | 0.188  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| cis-1,2-Dichloroethene      | 1.23   |           | 0.0933 | 0.500 | 1        | 05/03/2019 15:39 | <a href="#">WG1275623</a> |
| trans-1,2-Dichloroethene    | U      |           | 0.152  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Di-isopropyl ether          | U      |           | 0.0924 | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 04/27/2019 17:41 | <a href="#">WG1272804</a> |

JC 5/13/19



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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 05/03/2019 15:39        | <a href="#">WG1275623</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| Vinyl acetate                  | U              |           | 0.645       | 5.00        | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| Vinyl chloride                 | 1.03           | J JO      | 0.118       | 0.500       | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| (S) Toluene-d8                 | 99.9           |           |             | 80.0-120    |          | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| (S) Toluene-d8                 | 102            |           |             | 80.0-120    |          | 05/03/2019 15:39        | <a href="#">WG1275623</a> |
| (S) 4-Bromofluorobenzene       | 106            |           |             | 77.0-126    |          | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| (S) 4-Bromofluorobenzene       | 103            |           |             | 77.0-126    |          | 05/03/2019 15:39        | <a href="#">WG1275623</a> |
| (S) 1,2-Dichloroethane-d4      | 96.5           |           |             | 70.0-130    |          | 04/27/2019 17:41        | <a href="#">WG1272804</a> |
| (S) 1,2-Dichloroethane-d4      | 102            |           |             | 70.0-130    |          | 05/03/2019 15:39        | <a href="#">WG1275623</a> |

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

JC 5/13/19





Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | 121    | J+        | 31.6 | 100      | 1        | 05/01/2019 17:01 | <a href="#">WG1274492</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 94.3   |           |      | 78.0-120 |          | 05/01/2019 17:01 | <a href="#">WG1274492</a> |

1 Cp

2 Tc

3 Ss

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        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| Benzene                     | U      |           | 0.0896 | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| Bromomethane                | U      | UJ JO     | 0.157  | 2.50  | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| Chloroethane                | U      | UJ JO     | 0.141  | 2.50  | 1        | 05/03/2019 16:00 | <a href="#">WG1275623</a>            |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| Chloromethane               | U      |           | 0.153  | 1.25  | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| 1,1-Dichloroethane          | 1.57   |           | 0.114  | 0.500 | 1        | 05/03/2019 16:00 | <a href="#">WG1275623</a>            |
| 1,2-Dichloroethane          | 0.229  | J J       | 0.108  | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| 1,1-Dichloroethene          | 0.893  |           | 0.188  | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| cis-1,2-Dichloroethene      | 75.1   |           | 0.0933 | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| trans-1,2-Dichloroethene    | 0.261  | J J       | 0.152  | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| 1,2-Dichloropropane         | 0.878  |           | 0.190  | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a> JC 5/13/19 |
| Di-isopropyl ether          | U      |           | 0.0924 | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 04/27/2019 18:01 | <a href="#">WG1272804</a>            |

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

| Analyte                        | Result<br>ug/l | Qualifier    | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|--------------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |              | 1.07        | 2.50        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |              | 0.823       | 5.00        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Methyl tert-butyl ether        | U              |              | 0.102       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Naphthalene                    | U              |              | 0.174       | 2.50        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| n-Propylbenzene                | U              |              | 0.162       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Styrene                        | U              |              | 0.117       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,1,1,2-Tetrachloroethane      | U              |              | 0.120       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,1,2,2-Tetrachloroethane      | U              |              | 0.130       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,1,2-Trichlorotrifluoroethane | 0.465          | J <u>J</u>   | 0.164       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Tetrachloroethene              | 157            |              | 0.199       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Toluene                        | U              |              | 0.412       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,2,3-Trichlorobenzene         | U              |              | 0.164       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,2,4-Trichlorobenzene         | U              |              | 0.355       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,1,1-Trichloroethane          | 0.298          | J <u>J</u>   | 0.0940      | 0.500       | 1        | 05/03/2019 16:00        | <a href="#">WG1275623</a> |
| 1,1,2-Trichloroethane          | U              |              | 0.186       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Trichloroethene                | 45.2           |              | 0.153       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Trichlorofluoromethane         | U              | UJ <u>JO</u> | 0.130       | 2.50        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,2,3-Trichloropropane         | U              |              | 0.247       | 2.50        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,2,4-Trimethylbenzene         | U              |              | 0.123       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,2,3-Trimethylbenzene         | U              |              | 0.0739      | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| 1,3,5-Trimethylbenzene         | U              |              | 0.124       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Vinyl acetate                  | U              |              | 0.645       | 5.00        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Vinyl chloride                 | 0.861          | UJ <u>JO</u> | 0.118       | 0.500       | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| Xylenes, Total                 | U              |              | 0.316       | 1.50        | 1        | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| (S) Toluene-d8                 | 98.3           |              |             | 80.0-120    |          | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| (S) Toluene-d8                 | 98.2           |              |             | 80.0-120    |          | 05/03/2019 16:00        | <a href="#">WG1275623</a> |
| (S) 4-Bromofluorobenzene       | 103            |              |             | 77.0-126    |          | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| (S) 4-Bromofluorobenzene       | 103            |              |             | 77.0-126    |          | 05/03/2019 16:00        | <a href="#">WG1275623</a> |
| (S) 1,2-Dichloroethane-d4      | 93.7           |              |             | 70.0-130    |          | 04/27/2019 18:01        | <a href="#">WG1272804</a> |
| (S) 1,2-Dichloroethane-d4      | 94.9           |              |             | 70.0-130    |          | 05/03/2019 16:00        | <a href="#">WG1275623</a> |

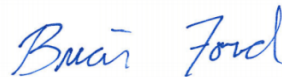
- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 5/13/19

## PES Environmental, Inc.- WA

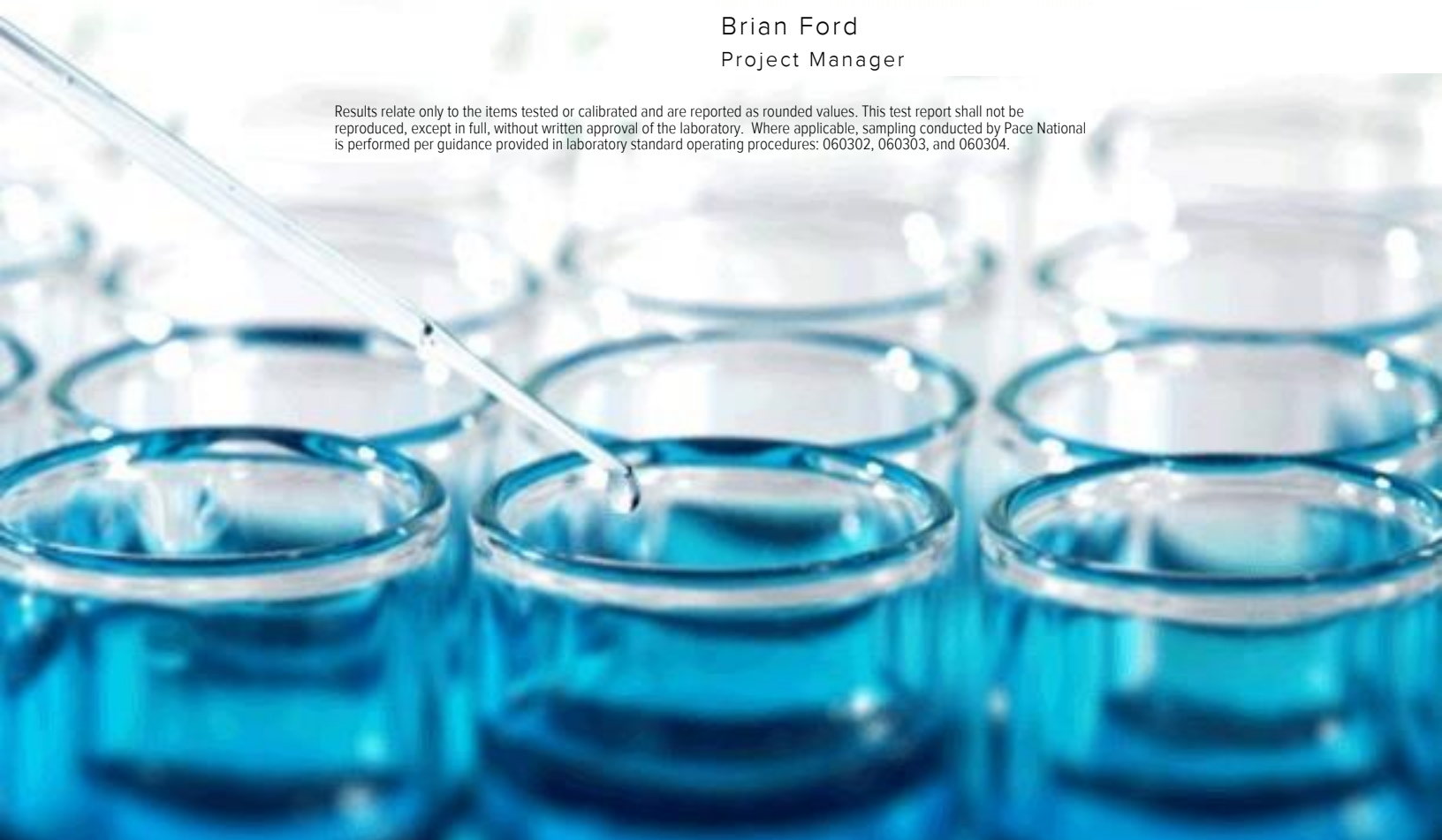
Sample Delivery Group: L1094387  
Samples Received: 05/02/2019  
Project Number: 1413.001.05,601  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

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.





|  |           |                |
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| <b>Tc: Table of Contents</b>                       | <b>2</b>  |                |
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| <b>Cn: Case Narrative</b>                          | <b>5</b>  |                |
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| Metals (ICPMS) by Method 6020B                     | 30        |                |
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# SAMPLE SUMMARY



## MW109-042919 L1094387-01 GW

Collected by Ben Hecht  
 Collected date/time 04/29/19 08:45  
 Received date/time 05/02/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1275813 | 1        | 05/03/19 18:20        | 05/03/19 18:20     | DWR     | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

## MW108-042919 L1094387-02 GW

Collected by Ben Hecht  
 Collected date/time 04/29/19 09:50  
 Received date/time 05/02/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1275813 | 1        | 05/03/19 18:41        | 05/03/19 18:41     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1276343 | 20       | 05/05/19 18:24        | 05/05/19 18:24     | JAH     | Mt. Juliet, TN |

4 Cn

5 Sr

6 Qc

## MW126-042919 L1094387-03 GW

Collected by Ben Hecht  
 Collected date/time 04/29/19 10:45  
 Received date/time 05/02/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1275813 | 1        | 05/03/19 19:01        | 05/03/19 19:01     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1276343 | 1        | 05/05/19 18:04        | 05/05/19 18:04     | JAH     | Mt. Juliet, TN |

7 Gl

8 Al

9 Sc

## MW119-042919 L1094387-04 GW

Collected by Ben Hecht  
 Collected date/time 04/29/19 12:20  
 Received date/time 05/02/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1275813 | 1        | 05/03/19 19:21        | 05/03/19 19:21     | DWR     | Mt. Juliet, TN |

## MW121-042919 L1094387-05 GW

Collected by Ben Hecht  
 Collected date/time 04/29/19 13:35  
 Received date/time 05/02/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1275218 | 1        | 05/02/19 18:28        | 05/02/19 18:28     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1275813 | 1        | 05/03/19 19:41        | 05/03/19 19:41     | DWR     | Mt. Juliet, TN |

## MW-161-050119 L1094387-06 GW

Collected by Ben Hecht  
 Collected date/time 05/01/19 09:25  
 Received date/time 05/02/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011                | WG1276578 | 1        | 05/07/19 19:50        | 05/07/19 19:50     | MCG     | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1274986 | 1        | 05/02/19 11:27        | 05/02/19 11:27     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                      | WG1275023 | 1        | 05/02/19 21:22        | 05/02/19 21:22     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1275858 | 1        | 05/07/19 10:24        | 05/12/19 22:10     | LAT     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1275218 | 1        | 05/02/19 18:52        | 05/02/19 18:52     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1277421 | 1        | 05/09/19 11:39        | 05/09/19 11:39     | DAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1275813 | 1        | 05/03/19 20:01        | 05/03/19 20:01     | DWR     | Mt. Juliet, TN |

## MW107-050119 L1094387-07 GW

Collected by Ben Hecht  
 Collected date/time 05/01/19 11:10  
 Received date/time 05/02/19 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011               | WG1276578 | 1        | 05/07/19 19:58        | 05/07/19 19:58     | MCG     | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                     | WG1274986 | 1        | 05/02/19 12:24        | 05/02/19 12:24     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                     | WG1275023 | 1        | 05/02/19 21:58        | 05/02/19 21:58     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                    | WG1275858 | 1        | 05/07/19 10:24        | 05/12/19 22:15     | LAT     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1275218 | 1        | 05/02/19 19:16        | 05/02/19 19:16     | DWR     | Mt. Juliet, TN |

# SAMPLE SUMMARY

## MW107-050119 L1094387-07 GW

Collected by: Ben Hecht  
 Collected date/time: 05/01/19 11:10  
 Received date/time: 05/02/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method RSK175   | WG1277421 | 1        | 05/09/19 11:43        | 05/09/19 11:43     | DAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1278760 | 20       | 05/09/19 16:35        | 05/09/19 16:35     | DAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1275813 | 1        | 05/03/19 20:21        | 05/03/19 20:21     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1276343 | 20       | 05/05/19 18:44        | 05/05/19 18:44     | JAH     | Mt. Juliet, TN |

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

## FMW-129-050119 L1094387-08 GW

Collected by: Ben Hecht  
 Collected date/time: 05/01/19 14:00  
 Received date/time: 05/02/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1275813 | 1        | 05/03/19 20:42        | 05/03/19 20:42     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1276343 | 5        | 05/05/19 19:04        | 05/05/19 19:04     | JAH     | Mt. Juliet, TN |

## TRIP BLANK-050119 L1094387-09 GW

Collected by: Ben Hecht  
 Collected date/time: 05/01/19 00:00  
 Received date/time: 05/02/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1275218 | 1        | 05/02/19 17:41        | 05/02/19 17:41     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1275813 | 1        | 05/03/19 17:00        | 05/03/19 17:00     | DWR     | 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

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> 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                     | 3.78   | J J4      | 1.05   | 25.0  | 1        | 05/03/2019 18:20 | WG1275813 |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 05/03/2019 18:20 | WG1275813 |
| Benzene                     | U      |           | 0.0896 | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Bromomethane                | U      |           | 0.157  | 2.50  | 1        | 05/03/2019 18:20 | WG1275813 |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Chloroethane                | U      | JO        | 0.141  | 2.50  | 1        | 05/03/2019 18:20 | WG1275813 |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Chloromethane               | U      | JO        | 0.153  | 1.25  | 1        | 05/03/2019 18:20 | WG1275813 |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,1-Dichloroethane          | U      |           | 0.114  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,1-Dichloroethene          | U      |           | 0.188  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| cis-1,2-Dichloroethene      | 4.78   |           | 0.0933 | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| trans-1,2-Dichloroethene    | U      |           | 0.152  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 05/03/2019 18:20 | WG1275813 |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 05/03/2019 18:20 | WG1275813 |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Di-isopropyl ether          | U      |           | 0.0924 | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 05/03/2019 18:20 | WG1275813 |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 05/03/2019 18:20 | WG1275813 |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 05/03/2019 18:20 | WG1275813 |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 05/03/2019 18:20 | WG1275813 |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 05/03/2019 18:20 | WG1275813 |
| Methylene Chloride          | U      |           | 1.07   | 2.50  | 1        | 05/03/2019 18:20 | WG1275813 |
| 4-Methyl-2-pentanone (MIBK) | U      |           | 0.823  | 5.00  | 1        | 05/03/2019 18:20 | WG1275813 |
| Methyl tert-butyl ether     | U      |           | 0.102  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Naphthalene                 | U      | JO        | 0.174  | 2.50  | 1        | 05/03/2019 18:20 | WG1275813 |
| n-Propylbenzene             | U      |           | 0.162  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Styrene                     | U      |           | 0.117  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,1,1,2-Tetrachloroethane   | U      |           | 0.120  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,1,2,2-Tetrachloroethane   | U      |           | 0.130  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |

- 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<br>ug/l | Qualifier    | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|--------------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,1,2-Trichlorotrifluoroethane | U              |              | 0.164       | 0.500       | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| Tetrachloroethene              | U              |              | 0.199       | 0.500       | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| Toluene                        | U              |              | 0.412       | 0.500       | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| 1,2,3-Trichlorobenzene         | U              |              | 0.164       | 0.500       | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| 1,2,4-Trichlorobenzene         | U              |              | 0.355       | 0.500       | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| 1,1,1-Trichloroethane          | U              |              | 0.0940      | 0.500       | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| 1,1,2-Trichloroethane          | U              |              | 0.186       | 0.500       | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| Trichloroethene                | U              |              | 0.153       | 0.500       | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| Trichlorofluoromethane         | U              | <u>JO</u>    | 0.130       | 2.50        | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| 1,2,3-Trichloropropane         | U              |              | 0.247       | 2.50        | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| 1,2,4-Trimethylbenzene         | U              |              | 0.123       | 0.500       | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| 1,2,3-Trimethylbenzene         | U              |              | 0.0739      | 0.500       | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| 1,3,5-Trimethylbenzene         | U              |              | 0.124       | 0.500       | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| Vinyl acetate                  | U              | <u>JO</u>    | 0.645       | 5.00        | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| Vinyl chloride                 | 3.06           | <u>JO J4</u> | 0.118       | 0.500       | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| Xylenes, Total                 | U              |              | 0.316       | 1.50        | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| (S) Toluene-d8                 | 98.4           |              |             | 80.0-120    |          | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| (S) 4-Bromofluorobenzene       | 104            |              |             | 77.0-126    |          | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| (S) 1,2-Dichloroethane-d4      | 95.8           |              |             | 70.0-130    |          | 05/03/2019 18:20        | <a href="#">WG1275813</a> |

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



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

| Analyte                     | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch     |
|-----------------------------|--------|-----------|--------|-------|----------|------------------|-----------|
|                             | ug/l   |           | ug/l   | ug/l  |          | date / time      |           |
| Acetone                     | 3.41   | J J4      | 1.05   | 25.0  | 1        | 05/03/2019 18:41 | WG1275813 |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 05/03/2019 18:41 | WG1275813 |
| Benzene                     | 3.20   |           | 0.0896 | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Bromomethane                | U      |           | 0.157  | 2.50  | 1        | 05/03/2019 18:41 | WG1275813 |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Chloroethane                | U      | JO        | 0.141  | 2.50  | 1        | 05/03/2019 18:41 | WG1275813 |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Chloromethane               | U      | JO        | 0.153  | 1.25  | 1        | 05/03/2019 18:41 | WG1275813 |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,1-Dichloroethane          | U      |           | 0.114  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,1-Dichloroethene          | 3.57   |           | 0.188  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| cis-1,2-Dichloroethene      | 970    |           | 1.87   | 10.0  | 20       | 05/05/2019 18:24 | WG1276343 |
| trans-1,2-Dichloroethene    | 3.22   |           | 0.152  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 05/03/2019 18:41 | WG1275813 |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 05/03/2019 18:41 | WG1275813 |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Di-isopropyl ether          | U      |           | 0.0924 | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 05/03/2019 18:41 | WG1275813 |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 05/03/2019 18:41 | WG1275813 |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 05/03/2019 18:41 | WG1275813 |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 05/03/2019 18:41 | WG1275813 |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 05/03/2019 18:41 | WG1275813 |
| Methylene Chloride          | U      |           | 1.07   | 2.50  | 1        | 05/03/2019 18:41 | WG1275813 |
| 4-Methyl-2-pentanone (MIBK) | U      |           | 0.823  | 5.00  | 1        | 05/03/2019 18:41 | WG1275813 |
| Methyl tert-butyl ether     | U      |           | 0.102  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Naphthalene                 | U      | JO        | 0.174  | 2.50  | 1        | 05/03/2019 18:41 | WG1275813 |
| n-Propylbenzene             | U      |           | 0.162  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Styrene                     | U      |           | 0.117  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,1,1,2-Tetrachloroethane   | U      |           | 0.120  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,1,2,2-Tetrachloroethane   | U      |           | 0.130  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |

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<br>ug/l | Qualifier    | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|--------------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,1,2-Trichlorotrifluoroethane | U              |              | 0.164       | 0.500       | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| Tetrachloroethene              | 419            |              | 3.98        | 10.0        | 20       | 05/05/2019 18:24        | <a href="#">WG1276343</a> |
| Toluene                        | U              |              | 0.412       | 0.500       | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| 1,2,3-Trichlorobenzene         | U              |              | 0.164       | 0.500       | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| 1,2,4-Trichlorobenzene         | U              |              | 0.355       | 0.500       | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| 1,1,1-Trichloroethane          | U              |              | 0.0940      | 0.500       | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| 1,1,2-Trichloroethane          | U              |              | 0.186       | 0.500       | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| Trichloroethene                | 171            |              | 0.153       | 0.500       | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| Trichlorofluoromethane         | U              | <u>JO</u>    | 0.130       | 2.50        | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| 1,2,3-Trichloropropane         | U              |              | 0.247       | 2.50        | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| 1,2,4-Trimethylbenzene         | U              |              | 0.123       | 0.500       | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| 1,2,3-Trimethylbenzene         | U              |              | 0.0739      | 0.500       | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| 1,3,5-Trimethylbenzene         | U              |              | 0.124       | 0.500       | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| Vinyl acetate                  | U              | <u>JO</u>    | 0.645       | 5.00        | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| Vinyl chloride                 | 125            | <u>JO J4</u> | 0.118       | 0.500       | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| Xylenes, Total                 | U              |              | 0.316       | 1.50        | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| (S) Toluene-d8                 | 99.2           |              |             | 80.0-120    |          | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| (S) Toluene-d8                 | 96.9           |              |             | 80.0-120    |          | 05/05/2019 18:24        | <a href="#">WG1276343</a> |
| (S) 4-Bromofluorobenzene       | 106            |              |             | 77.0-126    |          | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| (S) 4-Bromofluorobenzene       | 101            |              |             | 77.0-126    |          | 05/05/2019 18:24        | <a href="#">WG1276343</a> |
| (S) 1,2-Dichloroethane-d4      | 95.3           |              |             | 70.0-130    |          | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| (S) 1,2-Dichloroethane-d4      | 94.4           |              |             | 70.0-130    |          | 05/05/2019 18:24        | <a href="#">WG1276343</a> |

- 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                     | 2.18   | J J4      | 1.05   | 25.0  | 1        | 05/03/2019 19:01 | WG1275813 |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 05/03/2019 19:01 | WG1275813 |
| Benzene                     | U      |           | 0.0896 | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Bromomethane                | U      |           | 0.157  | 2.50  | 1        | 05/03/2019 19:01 | WG1275813 |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Chloroethane                | U      | JO        | 0.141  | 2.50  | 1        | 05/03/2019 19:01 | WG1275813 |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Chloromethane               | U      | JO        | 0.153  | 1.25  | 1        | 05/03/2019 19:01 | WG1275813 |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,1-Dichloroethane          | U      |           | 0.114  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,1-Dichloroethene          | U      |           | 0.188  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| cis-1,2-Dichloroethene      | U      |           | 0.0933 | 0.500 | 1        | 05/05/2019 18:04 | WG1276343 |
| trans-1,2-Dichloroethene    | U      |           | 0.152  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 05/03/2019 19:01 | WG1275813 |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 05/03/2019 19:01 | WG1275813 |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Di-isopropyl ether          | U      |           | 0.0924 | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 05/03/2019 19:01 | WG1275813 |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 05/03/2019 19:01 | WG1275813 |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 05/03/2019 19:01 | WG1275813 |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 05/03/2019 19:01 | WG1275813 |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 05/03/2019 19:01 | WG1275813 |
| Methylene Chloride          | U      |           | 1.07   | 2.50  | 1        | 05/03/2019 19:01 | WG1275813 |
| 4-Methyl-2-pentanone (MIBK) | U      |           | 0.823  | 5.00  | 1        | 05/03/2019 19:01 | WG1275813 |
| Methyl tert-butyl ether     | U      |           | 0.102  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Naphthalene                 | U      | JO        | 0.174  | 2.50  | 1        | 05/03/2019 19:01 | WG1275813 |
| n-Propylbenzene             | U      |           | 0.162  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Styrene                     | U      |           | 0.117  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,1,1,2-Tetrachloroethane   | U      |           | 0.120  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,1,2,2-Tetrachloroethane   | U      |           | 0.130  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |

- 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<br>ug/l | Qualifier    | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|--------------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,1,2-Trichlorotrifluoroethane | U              |              | 0.164       | 0.500       | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| Tetrachloroethene              | U              |              | 0.199       | 0.500       | 1        | 05/05/2019 18:04        | <a href="#">WG1276343</a> |
| Toluene                        | U              |              | 0.412       | 0.500       | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| 1,2,3-Trichlorobenzene         | U              |              | 0.164       | 0.500       | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| 1,2,4-Trichlorobenzene         | U              |              | 0.355       | 0.500       | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| 1,1,1-Trichloroethane          | U              |              | 0.0940      | 0.500       | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| 1,1,2-Trichloroethane          | U              |              | 0.186       | 0.500       | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| Trichloroethene                | U              |              | 0.153       | 0.500       | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| Trichlorofluoromethane         | U              | <u>JO</u>    | 0.130       | 2.50        | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| 1,2,3-Trichloropropane         | U              |              | 0.247       | 2.50        | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| 1,2,4-Trimethylbenzene         | U              |              | 0.123       | 0.500       | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| 1,2,3-Trimethylbenzene         | U              |              | 0.0739      | 0.500       | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| 1,3,5-Trimethylbenzene         | U              |              | 0.124       | 0.500       | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| Vinyl acetate                  | U              | <u>JO</u>    | 0.645       | 5.00        | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| Vinyl chloride                 | U              | <u>JO J4</u> | 0.118       | 0.500       | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| Xylenes, Total                 | U              |              | 0.316       | 1.50        | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| (S) Toluene-d8                 | 98.8           |              |             | 80.0-120    |          | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| (S) Toluene-d8                 | 97.5           |              |             | 80.0-120    |          | 05/05/2019 18:04        | <a href="#">WG1276343</a> |
| (S) 4-Bromofluorobenzene       | 103            |              |             | 77.0-126    |          | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| (S) 4-Bromofluorobenzene       | 101            |              |             | 77.0-126    |          | 05/05/2019 18:04        | <a href="#">WG1276343</a> |
| (S) 1,2-Dichloroethane-d4      | 98.5           |              |             | 70.0-130    |          | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| (S) 1,2-Dichloroethane-d4      | 94.4           |              |             | 70.0-130    |          | 05/05/2019 18:04        | <a href="#">WG1276343</a> |

- 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                     | 1.90   | J J4      | 1.05   | 25.0  | 1        | 05/03/2019 19:21 | WG1275813 |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 05/03/2019 19:21 | WG1275813 |
| Benzene                     | U      |           | 0.0896 | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Bromomethane                | U      |           | 0.157  | 2.50  | 1        | 05/03/2019 19:21 | WG1275813 |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Chloroethane                | U      | JO        | 0.141  | 2.50  | 1        | 05/03/2019 19:21 | WG1275813 |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Chloromethane               | U      | JO        | 0.153  | 1.25  | 1        | 05/03/2019 19:21 | WG1275813 |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,1-Dichloroethane          | U      |           | 0.114  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,1-Dichloroethene          | U      |           | 0.188  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| cis-1,2-Dichloroethene      | 10.9   |           | 0.0933 | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| trans-1,2-Dichloroethene    | 0.161  | J         | 0.152  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 05/03/2019 19:21 | WG1275813 |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 05/03/2019 19:21 | WG1275813 |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Di-isopropyl ether          | U      |           | 0.0924 | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 05/03/2019 19:21 | WG1275813 |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 05/03/2019 19:21 | WG1275813 |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 05/03/2019 19:21 | WG1275813 |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 05/03/2019 19:21 | WG1275813 |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 05/03/2019 19:21 | WG1275813 |
| Methylene Chloride          | U      |           | 1.07   | 2.50  | 1        | 05/03/2019 19:21 | WG1275813 |
| 4-Methyl-2-pentanone (MIBK) | U      |           | 0.823  | 5.00  | 1        | 05/03/2019 19:21 | WG1275813 |
| Methyl tert-butyl ether     | U      |           | 0.102  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Naphthalene                 | U      | JO        | 0.174  | 2.50  | 1        | 05/03/2019 19:21 | WG1275813 |
| n-Propylbenzene             | U      |           | 0.162  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Styrene                     | U      |           | 0.117  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,1,1,2-Tetrachloroethane   | U      |           | 0.120  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,1,2,2-Tetrachloroethane   | U      |           | 0.130  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |

- 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<br>ug/l | Qualifier    | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|--------------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,1,2-Trichlorotrifluoroethane | U              |              | 0.164       | 0.500       | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| Tetrachloroethene              | 0.224          | <u>J</u>     | 0.199       | 0.500       | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| Toluene                        | U              |              | 0.412       | 0.500       | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| 1,2,3-Trichlorobenzene         | U              |              | 0.164       | 0.500       | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| 1,2,4-Trichlorobenzene         | U              |              | 0.355       | 0.500       | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| 1,1,1-Trichloroethane          | U              |              | 0.0940      | 0.500       | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| 1,1,2-Trichloroethane          | U              |              | 0.186       | 0.500       | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| Trichloroethene                | 1.12           |              | 0.153       | 0.500       | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| Trichlorofluoromethane         | U              | <u>JO</u>    | 0.130       | 2.50        | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| 1,2,3-Trichloropropane         | U              |              | 0.247       | 2.50        | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| 1,2,4-Trimethylbenzene         | U              |              | 0.123       | 0.500       | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| 1,2,3-Trimethylbenzene         | U              |              | 0.0739      | 0.500       | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| 1,3,5-Trimethylbenzene         | U              |              | 0.124       | 0.500       | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| Vinyl acetate                  | U              | <u>JO</u>    | 0.645       | 5.00        | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| Vinyl chloride                 | U              | <u>JO J4</u> | 0.118       | 0.500       | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| Xylenes, Total                 | U              |              | 0.316       | 1.50        | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| (S) Toluene-d8                 | 98.2           |              |             | 80.0-120    |          | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| (S) 4-Bromofluorobenzene       | 103            |              |             | 77.0-126    |          | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| (S) 1,2-Dichloroethane-d4      | 96.1           |              |             | 70.0-130    |          | 05/03/2019 19:21        | <a href="#">WG1275813</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | U              |           | 31.6        | 100         | 1        | 05/02/2019 18:28        | <a href="#">WG1275218</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.1           |           |             | 78.0-120    |          | 05/02/2019 18:28        | <a href="#">WG1275218</a> |

- 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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | 4.49           | J J4      | 1.05        | 25.0        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Acrylonitrile               | U              |           | 0.873       | 5.00        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Benzene                     | U              |           | 0.0896      | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Bromobenzene                | U              |           | 0.133       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Bromodichloromethane        | U              |           | 0.0800      | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Bromochloromethane          | U              |           | 0.145       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Bromoform                   | U              |           | 0.186       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Bromomethane                | U              |           | 0.157       | 2.50        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| n-Butylbenzene              | U              |           | 0.143       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| sec-Butylbenzene            | U              |           | 0.134       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| tert-Butylbenzene           | U              |           | 0.183       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Carbon disulfide            | U              |           | 0.101       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Carbon tetrachloride        | U              |           | 0.159       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Chlorobenzene               | U              |           | 0.140       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Chlorodibromomethane        | U              |           | 0.128       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Chloroethane                | U              | JO        | 0.141       | 2.50        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Chloroform                  | U              |           | 0.0860      | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Chloromethane               | U              | JO        | 0.153       | 1.25        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 2-Chlorotoluene             | U              |           | 0.111       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 4-Chlorotoluene             | U              |           | 0.0972      | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,2-Dibromo-3-Chloropropane | U              |           | 0.325       | 2.50        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,2-Dibromoethane           | U              |           | 0.193       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Dibromomethane              | U              |           | 0.117       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,2-Dichlorobenzene         | U              |           | 0.101       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,3-Dichlorobenzene         | U              |           | 0.130       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,4-Dichlorobenzene         | U              |           | 0.121       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Dichlorodifluoromethane     | U              |           | 0.127       | 2.50        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,1-Dichloroethane          | U              |           | 0.114       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,2-Dichloroethane          | U              |           | 0.108       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,1-Dichloroethene          | U              |           | 0.188       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| cis-1,2-Dichloroethene      | 5.39           |           | 0.0933      | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| trans-1,2-Dichloroethene    | U              |           | 0.152       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,2-Dichloropropane         | U              |           | 0.190       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,1-Dichloropropene         | U              |           | 0.128       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,3-Dichloropropane         | U              |           | 0.147       | 1.00        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| cis-1,3-Dichloropropene     | U              |           | 0.0976      | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| trans-1,3-Dichloropropene   | U              |           | 0.222       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| trans-1,4-Dichloro-2-butene | U              |           | 0.257       | 5.00        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 2,2-Dichloropropane         | U              |           | 0.0929      | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Di-isopropyl ether          | U              |           | 0.0924      | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Ethylbenzene                | U              |           | 0.158       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Hexachloro-1,3-butadiene    | U              |           | 0.157       | 1.00        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 2-Hexanone                  | U              |           | 0.757       | 5.00        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| n-Hexane                    | U              |           | 0.305       | 5.00        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Iodomethane                 | U              |           | 0.377       | 10.0        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Isopropylbenzene            | U              |           | 0.126       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| p-Isopropyltoluene          | U              |           | 0.138       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 2-Butanone (MEK)            | U              |           | 1.28        | 5.00        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |





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

| Analyte                        | Result<br>ug/l | Qualifier    | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|--------------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |              | 1.07        | 2.50        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |              | 0.823       | 5.00        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Methyl tert-butyl ether        | U              |              | 0.102       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Naphthalene                    | U              | <u>JO</u>    | 0.174       | 2.50        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| n-Propylbenzene                | U              |              | 0.162       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Styrene                        | U              |              | 0.117       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,1,1,2-Tetrachloroethane      | U              |              | 0.120       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,1,2,2-Tetrachloroethane      | U              |              | 0.130       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |              | 0.164       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Tetrachloroethene              | U              |              | 0.199       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Toluene                        | U              |              | 0.412       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,2,3-Trichlorobenzene         | U              |              | 0.164       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,2,4-Trichlorobenzene         | U              |              | 0.355       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,1,1-Trichloroethane          | U              |              | 0.0940      | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,1,2-Trichloroethane          | U              |              | 0.186       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Trichloroethene                | U              |              | 0.153       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Trichlorofluoromethane         | U              | <u>JO</u>    | 0.130       | 2.50        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,2,3-Trichloropropane         | U              |              | 0.247       | 2.50        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,2,4-Trimethylbenzene         | U              |              | 0.123       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,2,3-Trimethylbenzene         | U              |              | 0.0739      | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,3,5-Trimethylbenzene         | U              |              | 0.124       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Vinyl acetate                  | U              | <u>JO</u>    | 0.645       | 5.00        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Vinyl chloride                 | 15.2           | <u>JO J4</u> | 0.118       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Xylenes, Total                 | U              |              | 0.316       | 1.50        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| (S) Toluene-d8                 | 96.6           |              |             | 80.0-120    |          | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| (S) 4-Bromofluorobenzene       | 101            |              |             | 77.0-126    |          | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| (S) 1,2-Dichloroethane-d4      | 96.1           |              |             | 70.0-130    |          | 05/03/2019 19:41        | <a href="#">WG1275813</a> |

- 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 | Qualifier | MDL  | RDL   | Dilution | Analysis date / time | Batch                     |
|------------|--------|-----------|------|-------|----------|----------------------|---------------------------|
| Alkalinity | 293000 |           | 2710 | 20000 | 1        | 05/07/2019 19:50     | <a href="#">WG1276578</a> |

Sample Narrative:

L1094387-06 WG1276578: Endpoint pH 4.5

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis date / time | Batch                     |
|----------|--------|-----------|------|------|----------|----------------------|---------------------------|
| Chloride | 25500  |           | 51.9 | 1000 | 1        | 05/02/2019 11:27     | <a href="#">WG1274986</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 05/02/2019 11:27     | <a href="#">WG1274986</a> |
| Sulfate  | 12200  |           | 77.4 | 5000 | 1        | 05/02/2019 11:27     | <a href="#">WG1274986</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL | RDL  | Dilution | Analysis date / time | Batch                     |
|----------------------------|--------|-----------|-----|------|----------|----------------------|---------------------------|
| TOC (Total Organic Carbon) | 1580   | <u>B</u>  | 102 | 1000 | 1        | 05/02/2019 21:22     | <a href="#">WG1275023</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis date / time | Batch                     |
|-----------|--------|-----------|-------|------|----------|----------------------|---------------------------|
| Iron      | 5730   |           | 15.0  | 100  | 1        | 05/12/2019 22:10     | <a href="#">WG1275858</a> |
| Manganese | 795    |           | 0.250 | 5.00 | 1        | 05/12/2019 22:10     | <a href="#">WG1275858</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|----------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 05/02/2019 18:52     | <a href="#">WG1275218</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.6   |           |      | 78.0-120 |          | 05/02/2019 18:52     | <a href="#">WG1275218</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis date / time | Batch                     |
|---------|--------|-----------|-------|-------|----------|----------------------|---------------------------|
| Methane | 98.1   |           | 0.287 | 0.678 | 1        | 05/09/2019 11:39     | <a href="#">WG1277421</a> |
| Ethane  | U      |           | 0.296 | 1.29  | 1        | 05/09/2019 11:39     | <a href="#">WG1277421</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 05/09/2019 11:39     | <a href="#">WG1277421</a> |

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

| Analyte              | Result | Qualifier   | MDL    | RDL   | Dilution | Analysis date / time | Batch                     |
|----------------------|--------|-------------|--------|-------|----------|----------------------|---------------------------|
| Acetone              | 1.21   | <u>J J4</u> | 1.05   | 25.0  | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |
| Acrylonitrile        | U      |             | 0.873  | 5.00  | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |
| Benzene              | U      |             | 0.0896 | 0.500 | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |
| Bromobenzene         | U      |             | 0.133  | 0.500 | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |
| Bromodichloromethane | U      |             | 0.0800 | 0.500 | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |
| Bromochloromethane   | U      |             | 0.145  | 0.500 | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |
| Bromoform            | U      |             | 0.186  | 0.500 | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |
| Bromomethane         | U      |             | 0.157  | 2.50  | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |
| n-Butylbenzene       | U      |             | 0.143  | 0.500 | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |
| sec-Butylbenzene     | U      |             | 0.134  | 0.500 | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |
| tert-Butylbenzene    | U      |             | 0.183  | 0.500 | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |
| Carbon disulfide     | U      |             | 0.101  | 0.500 | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |
| Carbon tetrachloride | U      |             | 0.159  | 0.500 | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| Chloroethane                   | U              | JO        | 0.141       | 2.50        | 1        | 05/03/2019 20:01        | WG1275813 |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| Chloromethane                  | U              | JO        | 0.153       | 1.25        | 1        | 05/03/2019 20:01        | WG1275813 |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 05/03/2019 20:01        | WG1275813 |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 05/03/2019 20:01        | WG1275813 |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| 1,1-Dichloroethene             | 0.517          |           | 0.188       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| cis-1,2-Dichloroethene         | 1.15           |           | 0.0933      | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| trans-1,2-Dichloroethene       | U              |           | 0.152       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 05/03/2019 20:01        | WG1275813 |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 05/03/2019 20:01        | WG1275813 |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 05/03/2019 20:01        | WG1275813 |
| 2-Hexanone                     | U              |           | 0.757       | 5.00        | 1        | 05/03/2019 20:01        | WG1275813 |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 05/03/2019 20:01        | WG1275813 |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 05/03/2019 20:01        | WG1275813 |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 05/03/2019 20:01        | WG1275813 |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 05/03/2019 20:01        | WG1275813 |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 05/03/2019 20:01        | WG1275813 |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| Naphthalene                    | U              | JO        | 0.174       | 2.50        | 1        | 05/03/2019 20:01        | WG1275813 |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| 1,1,1-Tetrachloroethane        | U              |           | 0.120       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| Tetrachloroethene              | 0.482          | J         | 0.199       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| Trichloroethene                | 1.66           |           | 0.153       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| Trichlorofluoromethane         | U              | JO        | 0.130       | 2.50        | 1        | 05/03/2019 20:01        | WG1275813 |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 05/03/2019 20:01        | WG1275813 |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 05/03/2019 20:01        | WG1275813 |

- 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<br>ug/l | Qualifier    | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|----------------------------------|----------------|--------------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate                    | U              | <u>JO</u>    | 0.645       | 5.00        | 1        | 05/03/2019 20:01        | <a href="#">WG1275813</a> |
| Vinyl chloride                   | U              | <u>JO J4</u> | 0.118       | 0.500       | 1        | 05/03/2019 20:01        | <a href="#">WG1275813</a> |
| Xylenes, Total                   | U              |              | 0.316       | 1.50        | 1        | 05/03/2019 20:01        | <a href="#">WG1275813</a> |
| <i>(S) Toluene-d8</i>            | 99.3           |              |             | 80.0-120    |          | 05/03/2019 20:01        | <a href="#">WG1275813</a> |
| <i>(S) 4-Bromofluorobenzene</i>  | 102            |              |             | 77.0-126    |          | 05/03/2019 20:01        | <a href="#">WG1275813</a> |
| <i>(S) 1,2-Dichloroethane-d4</i> | 99.5           |              |             | 70.0-130    |          | 05/03/2019 20:01        | <a href="#">WG1275813</a> |

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 | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 538000 |           | 2710 | 20000 | 1        | 05/07/2019 19:58 | <a href="#">WG1276578</a> |

Sample Narrative:

L1094387-07 WG1276578: Endpoint pH 4.5

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 41600  |           | 51.9 | 1000 | 1        | 05/02/2019 12:24 | <a href="#">WG1274986</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 05/02/2019 12:24 | <a href="#">WG1274986</a> |
| Sulfate  | 51800  |           | 77.4 | 5000 | 1        | 05/02/2019 12:24 | <a href="#">WG1274986</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 14200  |           | 102  | 1000 | 1        | 05/02/2019 21:58 | <a href="#">WG1275023</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 2670   |           | 15.0  | 100  | 1        | 05/12/2019 22:15 | <a href="#">WG1275858</a> |
| Manganese | 1080   |           | 0.250 | 5.00 | 1        | 05/12/2019 22:15 | <a href="#">WG1275858</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | 481    |           | 31.6 | 100      | 1        | 05/02/2019 19:16 | <a href="#">WG1275218</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 99.0   |           |      | 78.0-120 |          | 05/02/2019 19:16 | <a href="#">WG1275218</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Methane | 18000  |           | 5.74  | 13.6 | 20       | 05/09/2019 16:35 | <a href="#">WG1278760</a> |
| Ethane  | 122    |           | 0.296 | 1.29 | 1        | 05/09/2019 11:43 | <a href="#">WG1277421</a> |
| Ethene  | 93.2   |           | 0.422 | 1.27 | 1        | 05/09/2019 11:43 | <a href="#">WG1277421</a> |

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

| Analyte              | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch                     |
|----------------------|--------|-----------|--------|-------|----------|------------------|---------------------------|
|                      | ug/l   |           | ug/l   | ug/l  |          | date / time      |                           |
| Acetone              | 5.66   | J J4      | 1.05   | 25.0  | 1        | 05/03/2019 20:21 | <a href="#">WG1275813</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 05/03/2019 20:21 | <a href="#">WG1275813</a> |
| Benzene              | 0.188  | J         | 0.0896 | 0.500 | 1        | 05/03/2019 20:21 | <a href="#">WG1275813</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 05/03/2019 20:21 | <a href="#">WG1275813</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 05/03/2019 20:21 | <a href="#">WG1275813</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 05/03/2019 20:21 | <a href="#">WG1275813</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 05/03/2019 20:21 | <a href="#">WG1275813</a> |
| Bromomethane         | U      |           | 0.157  | 2.50  | 1        | 05/03/2019 20:21 | <a href="#">WG1275813</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 05/03/2019 20:21 | <a href="#">WG1275813</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 05/03/2019 20:21 | <a href="#">WG1275813</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 05/03/2019 20:21 | <a href="#">WG1275813</a> |
| Carbon disulfide     | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 20:21 | <a href="#">WG1275813</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 05/03/2019 20:21 | <a href="#">WG1275813</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 05/01/19 11:10

L1094387

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| Chloroethane                   | 4.02           | <u>JO</u> | 0.141       | 2.50        | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| Chloromethane                  | U              | <u>JO</u> | 0.153       | 1.25        | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 1,1-Dichloroethene             | 13.0           |           | 0.188       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| cis-1,2-Dichloroethene         | 1250           |           | 1.87        | 10.0        | 20       | 05/05/2019 18:44        | <a href="#">WG1276343</a> |
| trans-1,2-Dichloroethene       | 14.1           |           | 0.152       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 2-Hexanone                     | U              |           | 0.757       | 5.00        | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| Naphthalene                    | U              | <u>JO</u> | 0.174       | 2.50        | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| Trichloroethene                | 99.9           |           | 0.153       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              | <u>JO</u> | 0.645       | 5.00        | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| Vinyl chloride            | 374            |           | 2.36        | 10.0        | 20       | 05/05/2019 18:44        | <a href="#">WG1276343</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| (S) Toluene-d8            | 99.0           |           |             | 80.0-120    |          | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| (S) Toluene-d8            | 102            |           |             | 80.0-120    |          | 05/05/2019 18:44        | <a href="#">WG1276343</a> |
| (S) 4-Bromofluorobenzene  | 105            |           |             | 77.0-126    |          | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| (S) 4-Bromofluorobenzene  | 105            |           |             | 77.0-126    |          | 05/05/2019 18:44        | <a href="#">WG1276343</a> |
| (S) 1,2-Dichloroethane-d4 | 94.3           |           |             | 70.0-130    |          | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| (S) 1,2-Dichloroethane-d4 | 98.0           |           |             | 70.0-130    |          | 05/05/2019 18:44        | <a href="#">WG1276343</a> |

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                     | 4.93   | J J4      | 1.05   | 25.0  | 1        | 05/03/2019 20:42 | WG1275813 |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 05/03/2019 20:42 | WG1275813 |
| Benzene                     | U      |           | 0.0896 | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Bromomethane                | U      |           | 0.157  | 2.50  | 1        | 05/03/2019 20:42 | WG1275813 |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Chloroethane                | U      | JO        | 0.141  | 2.50  | 1        | 05/03/2019 20:42 | WG1275813 |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Chloromethane               | U      | JO        | 0.153  | 1.25  | 1        | 05/03/2019 20:42 | WG1275813 |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,1-Dichloroethane          | U      |           | 0.114  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,1-Dichloroethene          | 1.26   |           | 0.188  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| cis-1,2-Dichloroethene      | 372    |           | 0.466  | 2.50  | 5        | 05/05/2019 19:04 | WG1276343 |
| trans-1,2-Dichloroethene    | 1.22   |           | 0.152  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 05/03/2019 20:42 | WG1275813 |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 05/03/2019 20:42 | WG1275813 |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Di-isopropyl ether          | U      |           | 0.0924 | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 05/03/2019 20:42 | WG1275813 |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 05/03/2019 20:42 | WG1275813 |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 05/03/2019 20:42 | WG1275813 |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 05/03/2019 20:42 | WG1275813 |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 05/03/2019 20:42 | WG1275813 |
| Methylene Chloride          | U      |           | 1.07   | 2.50  | 1        | 05/03/2019 20:42 | WG1275813 |
| 4-Methyl-2-pentanone (MIBK) | U      |           | 0.823  | 5.00  | 1        | 05/03/2019 20:42 | WG1275813 |
| Methyl tert-butyl ether     | U      |           | 0.102  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Naphthalene                 | U      | JO        | 0.174  | 2.50  | 1        | 05/03/2019 20:42 | WG1275813 |
| n-Propylbenzene             | U      |           | 0.162  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Styrene                     | U      |           | 0.117  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,1,1,2-Tetrachloroethane   | U      |           | 0.120  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,1,2,2-Tetrachloroethane   | U      |           | 0.130  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |

- 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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| Tetrachloroethene              | 101            |           | 0.199       | 0.500       | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| Trichloroethene                | 166            |           | 0.153       | 0.500       | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| Vinyl acetate                  | U              | <u>JO</u> | 0.645       | 5.00        | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| Vinyl chloride                 | U              |           | 0.590       | 2.50        | 5        | 05/05/2019 19:04        | <a href="#">WG1276343</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| (S) Toluene-d8                 | 96.8           |           |             | 80.0-120    |          | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| (S) Toluene-d8                 | 96.5           |           |             | 80.0-120    |          | 05/05/2019 19:04        | <a href="#">WG1276343</a> |
| (S) 4-Bromofluorobenzene       | 101            |           |             | 77.0-126    |          | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| (S) 4-Bromofluorobenzene       | 101            |           |             | 77.0-126    |          | 05/05/2019 19:04        | <a href="#">WG1276343</a> |
| (S) 1,2-Dichloroethane-d4      | 98.7           |           |             | 70.0-130    |          | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| (S) 1,2-Dichloroethane-d4      | 94.8           |           |             | 70.0-130    |          | 05/05/2019 19:04        | <a href="#">WG1276343</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Sample Narrative:

L1094387-08 WG1275813, WG1276343: Not all compounds reportable at lower dilution.

L1094387-08 WG1275813, WG1276343: Cannot be re-analyzed at lower dilution due to high levels of target analytes.



Collected date/time: 05/01/19 00:00

L1094387

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | U              |           | 31.6        | 100         | 1        | 05/02/2019 17:41        | <a href="#">WG1275218</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 98.6           |           |             | 78.0-120    |          | 05/02/2019 17:41        | <a href="#">WG1275218</a> |

- 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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | 1.22           | J J4      | 1.05        | 25.0        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Acrylonitrile               | U              |           | 0.873       | 5.00        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Benzene                     | U              |           | 0.0896      | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Bromobenzene                | U              |           | 0.133       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Bromodichloromethane        | U              |           | 0.0800      | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Bromochloromethane          | U              |           | 0.145       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Bromoform                   | U              |           | 0.186       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Bromomethane                | U              |           | 0.157       | 2.50        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| n-Butylbenzene              | U              |           | 0.143       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| sec-Butylbenzene            | U              |           | 0.134       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| tert-Butylbenzene           | U              |           | 0.183       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Carbon disulfide            | U              |           | 0.101       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Carbon tetrachloride        | U              |           | 0.159       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Chlorobenzene               | U              |           | 0.140       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Chlorodibromomethane        | U              |           | 0.128       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Chloroethane                | U              | JO        | 0.141       | 2.50        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Chloroform                  | U              |           | 0.0860      | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Chloromethane               | U              | JO        | 0.153       | 1.25        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 2-Chlorotoluene             | U              |           | 0.111       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 4-Chlorotoluene             | U              |           | 0.0972      | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,2-Dibromo-3-Chloropropane | U              |           | 0.325       | 2.50        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,2-Dibromoethane           | U              |           | 0.193       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Dibromomethane              | U              |           | 0.117       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,2-Dichlorobenzene         | U              |           | 0.101       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,3-Dichlorobenzene         | U              |           | 0.130       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,4-Dichlorobenzene         | U              |           | 0.121       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Dichlorodifluoromethane     | U              |           | 0.127       | 2.50        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,1-Dichloroethane          | U              |           | 0.114       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,2-Dichloroethane          | U              |           | 0.108       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,1-Dichloroethene          | U              |           | 0.188       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| cis-1,2-Dichloroethene      | U              |           | 0.0933      | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| trans-1,2-Dichloroethene    | U              |           | 0.152       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,2-Dichloropropane         | U              |           | 0.190       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,1-Dichloropropene         | U              |           | 0.128       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,3-Dichloropropane         | U              |           | 0.147       | 1.00        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| cis-1,3-Dichloropropene     | U              |           | 0.0976      | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| trans-1,3-Dichloropropene   | U              |           | 0.222       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| trans-1,4-Dichloro-2-butene | U              |           | 0.257       | 5.00        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 2,2-Dichloropropane         | U              |           | 0.0929      | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Di-isopropyl ether          | U              |           | 0.0924      | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Ethylbenzene                | U              |           | 0.158       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Hexachloro-1,3-butadiene    | U              |           | 0.157       | 1.00        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 2-Hexanone                  | U              |           | 0.757       | 5.00        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| n-Hexane                    | U              |           | 0.305       | 5.00        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Iodomethane                 | U              |           | 0.377       | 10.0        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Isopropylbenzene            | U              |           | 0.126       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| p-Isopropyltoluene          | U              |           | 0.138       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 2-Butanone (MEK)            | U              |           | 1.28        | 5.00        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |



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

| Analyte                        | Result<br>ug/l | Qualifier    | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|--------------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |              | 1.07        | 2.50        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |              | 0.823       | 5.00        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Methyl tert-butyl ether        | U              |              | 0.102       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Naphthalene                    | U              | <u>JO</u>    | 0.174       | 2.50        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| n-Propylbenzene                | U              |              | 0.162       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Styrene                        | U              |              | 0.117       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,1,1,2-Tetrachloroethane      | U              |              | 0.120       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,1,2,2-Tetrachloroethane      | U              |              | 0.130       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |              | 0.164       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Tetrachloroethene              | U              |              | 0.199       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Toluene                        | U              |              | 0.412       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,2,3-Trichlorobenzene         | U              |              | 0.164       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,2,4-Trichlorobenzene         | U              |              | 0.355       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,1,1-Trichloroethane          | U              |              | 0.0940      | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,1,2-Trichloroethane          | U              |              | 0.186       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Trichloroethene                | U              |              | 0.153       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Trichlorofluoromethane         | U              | <u>JO</u>    | 0.130       | 2.50        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,2,3-Trichloropropane         | U              |              | 0.247       | 2.50        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,2,4-Trimethylbenzene         | U              |              | 0.123       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,2,3-Trimethylbenzene         | U              |              | 0.0739      | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,3,5-Trimethylbenzene         | U              |              | 0.124       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Vinyl acetate                  | U              | <u>JO</u>    | 0.645       | 5.00        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Vinyl chloride                 | U              | <u>JO J4</u> | 0.118       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Xylenes, Total                 | U              |              | 0.316       | 1.50        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| (S) Toluene-d8                 | 98.6           |              |             | 80.0-120    |          | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| (S) 4-Bromofluorobenzene       | 105            |              |             | 77.0-126    |          | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| (S) 1,2-Dichloroethane-d4      | 98.3           |              |             | 70.0-130    |          | 05/03/2019 17:00        | <a href="#">WG1275813</a> |

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



Method Blank (MB)

(MB) R3409108-1 05/07/19 18:19

| Analyte    | MB Result | MB Qualifier | MB MDL | MB RDL |
|------------|-----------|--------------|--------|--------|
| Alkalinity | 5510      | J            | 2710   | 20000  |

Sample Narrative:

BLANK: Endpoint pH 4.5

L1094450-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1094450-09 05/07/19 22:02 • (DUP) R3409108-4 05/08/19 07:27

| Analyte    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------|-----------------|------------|----------|---------|---------------|----------------|
| Alkalinity | 555000          | 547000     | 1        | 1.40    |               | 20             |

Sample Narrative:

OS: Endpoint pH 4.5  
DUP: Endpoint pH 4.5

L1093607-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1093607-01 05/07/19 18:36 • (DUP) R3409108-2 05/07/19 18:44

| Analyte    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------|-----------------|------------|----------|---------|---------------|----------------|
| Alkalinity | ND              | 15700      | 1        | 0.000   |               | 20             |

Sample Narrative:

OS: Endpoint pH 4.5  
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3409108-3 05/07/19 20:31

| Analyte    | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|------------|--------------|------------|----------|-------------|---------------|
| Alkalinity | 100000       | 102000     | 102      | 85.0-115    |               |

Sample Narrative:

LCS: Endpoint pH 4.5

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Method Blank (MB)

(MB) R3407729-1 05/02/19 09:54

| 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   |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1094387-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1094387-06 05/02/19 11:27 • (DUP) R3407729-3 05/02/19 11:41

| Analyte  | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
|          | ug/l            | ug/l       |          | %       |               | %              |
| Chloride | 25500           | 25600      | 1        | 0.444   |               | 15             |
| Nitrate  | U               | 0.000      | 1        | 0.000   |               | 15             |
| Sulfate  | 12200           | 12200      | 1        | 0.406   |               | 15             |

L1094414-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1094414-03 05/02/19 16:43 • (DUP) R3407729-6 05/02/19 16:58

| Analyte  | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
|          | ug/l            | ug/l       |          | %       |               | %              |
| Chloride | 80.6            | 0.000      | 1        | 200     | P1            | 15             |
| Nitrate  | U               | 0.000      | 1        | 0.000   |               | 15             |
| Sulfate  | U               | 0.000      | 1        | 0.000   |               | 15             |

Laboratory Control Sample (LCS)

(LCS) R3407729-2 05/02/19 10:08

| Analyte  | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------|--------------|------------|----------|-------------|---------------|
|          | ug/l         | ug/l       | %        | %           |               |
| Chloride | 40000        | 40100      | 100      | 80.0-120    |               |
| Nitrate  | 8000         | 8050       | 101      | 80.0-120    |               |
| Sulfate  | 40000        | 40500      | 101      | 80.0-120    |               |



[L1094387-06.07](#)

L1094387-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1094387-06 05/02/19 11:27 • (MS) R3407729-4 05/02/19 11:55 • (MSD) R3407729-5 05/02/19 12:09

| Analyte  | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MSD Result<br>ug/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Chloride | 50000                | 25500                   | 73800             | 73800              | 96.5         | 96.7          | 1        | 80.0-120         |              |               | 0.0809   | 15              |
| Nitrate  | 5000                 | U                       | 4620              | 4630               | 92.4         | 92.6          | 1        | 80.0-120         |              |               | 0.195    | 15              |
| Sulfate  | 50000                | 12200                   | 60300             | 60300              | 96.3         | 96.3          | 1        | 80.0-120         |              |               | 0.0128   | 15              |

L1094414-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1094414-03 05/02/19 16:43 • (MS) R3407729-7 05/02/19 17:12

| Analyte  | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MS Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier |
|----------|----------------------|-------------------------|-------------------|--------------|----------|------------------|--------------|
| Chloride | 50000                | 80.6                    | 49600             | 99.0         | 1        | 80.0-120         |              |
| Nitrate  | 5000                 | U                       | 4830              | 96.5         | 1        | 80.0-120         |              |
| Sulfate  | 50000                | U                       | 48800             | 97.5         | 1        | 80.0-120         |              |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3407790-1 05/02/19 12:07

| Analyte                    | MB Result | MB Qualifier                          | MB MDL | MB RDL |
|----------------------------|-----------|---------------------------------------|--------|--------|
| TOC (Total Organic Carbon) | 198       | <span style="color: purple;">J</span> | 102    | 1000   |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1094181-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1094181-11 05/02/19 17:08 • (DUP) R3407790-5 05/02/19 17:25

| Analyte                    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------------------------|-----------------|------------|----------|---------|---------------|----------------|
| TOC (Total Organic Carbon) | 1970            | 1890       | 1        | 4.14    |               | 20             |

L1094387-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1094387-06 05/02/19 21:22 • (DUP) R3407790-8 05/02/19 21:39

| Analyte                    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------------------------|-----------------|------------|----------|---------|---------------|----------------|
| TOC (Total Organic Carbon) | 1580            | 1610       | 1        | 2.07    |               | 20             |

Laboratory Control Sample (LCS)

(LCS) R3407790-2 05/02/19 12:43

| Analyte                    | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------------------------|--------------|------------|----------|-------------|---------------|
| TOC (Total Organic Carbon) | 75000        | 76500      | 102      | 85.0-115    |               |

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3407790-3 05/02/19 14:17 • (MSD) R3407790-4 05/02/19 14:41

| Analyte                    | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier                          | MSD Qualifier                         | RPD  | RPD Limits |
|----------------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|---------------------------------------|---------------------------------------|------|------------|
| TOC (Total Organic Carbon) | 50000        |                 | 2550000   | 2590000    | 85.1    | 89.3     | 20       | 80.0-120    | <span style="color: purple;">E</span> | <span style="color: purple;">E</span> | 1.64 | 20         |

L1094377-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1094377-02 05/02/19 20:04 • (MS) R3407790-6 05/02/19 20:25 • (MSD) R3407790-7 05/02/19 20:45

| Analyte                    | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD   | RPD Limits |
|----------------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| TOC (Total Organic Carbon) | 50000        | 3870            | 53800     | 54200      | 99.9    | 101      | 1        | 80.0-120    |              |               | 0.630 | 20         |



Method Blank (MB)

(MB) R3410561-1 05/12/19 20:24

| Analyte   | MB Result | MB Qualifier | MB MDL | MB RDL |
|-----------|-----------|--------------|--------|--------|
| 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) R3410561-2 05/12/19 20:30 • (LCSD) R3410561-3 05/12/19 20:35

| Analyte   | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |
|-----------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| Iron      | 500          | 515        | 470         | 103      | 94.0      | 80.0-120    |               |                | 9.08 | 20         |
| Manganese | 50.0         | 49.3       | 47.8        | 98.5     | 95.6      | 80.0-120    |               |                | 3.05 | 20         |

L1094065-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1094065-01 05/12/19 20:40 • (MS) R3410561-5 05/12/19 20:51 • (MSD) R3410561-6 05/12/19 20:56

| Analyte   | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD  | RPD Limits |
|-----------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Iron      | 500          | 200000          | 189000    | 185000     | 0.000   | 0.000    | 1        | 75.0-125    | √            | √             | 2.08 | 20         |
| Manganese | 50.0         | 5360            | 5190      | 4990       | 0.000   | 0.000    | 1        | 75.0-125    | √            | √             | 3.94 | 20         |





Method Blank (MB)

(MB) R3407657-3 05/02/19 14:16

| Analyte                            | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| Gasoline Range Organics-NWTPH      | U                 |              | 31.6           | 100            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 98.4              |              |                | 78.0-120       |

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

(LCS) R3407657-1 05/02/19 13:04 • (LCSD) R3407657-2 05/02/19 13:28

| Analyte                            | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Gasoline Range Organics-NWTPH      | 5500                 | 5280               | 5110                | 95.9          | 92.9           | 70.0-124         |               |                | 3.26     | 20              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                    |                     | 104           | 104            | 78.0-120         |               |                |          |                 |

L1094387-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1094387-05 05/02/19 18:28 • (MS) R3407657-4 05/02/19 23:14 • (MSD) R3407657-5 05/02/19 23:38

| Analyte                            | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MSD Result<br>ug/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Gasoline Range Organics-NWTPH      | 5500                 | U                       | 5760              | 5590               | 105          | 102           | 1        | 10.0-155         |              |               | 2.92     | 21              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                         |                   |                    | 107          | 107           |          | 78.0-120         |              |               |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3409706-1 05/09/19 11:19

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------|-----------|--------------|--------|--------|
|         | ug/l      |              | ug/l   | ug/l   |
| Methane | U         |              | 0.287  | 0.678  |
| Ethane  | U         |              | 0.296  | 1.29   |
| Ethene  | U         |              | 0.422  | 1.27   |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1094039-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1094039-01 05/09/19 11:34 • (DUP) R3409706-2 05/09/19 11:36

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
|         | ug/l            | ug/l       |          | %       |               | %              |
| Methane | 221             | 79.2       | 1        | 94.5    |               | 20             |
| Ethane  | ND              | 0.000      | 1        | 0.000   |               | 20             |
| Ethene  | ND              | 0.000      | 1        | 0.000   |               | 20             |

L1094407-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1094407-05 05/09/19 12:59 • (DUP) R3409706-3 05/09/19 13:02

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
|         | ug/l            | ug/l       |          | %       |               | %              |
| Methane | 519             | 536        | 1        | 3.25    |               | 20             |
| Ethane  | ND              | 0.000      | 1        | 0.000   |               | 20             |
| Ethene  | ND              | 0.000      | 1        | 0.000   |               | 20             |

L1095146-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1095146-01 05/09/19 13:38 • (DUP) R3409706-4 05/09/19 13:48

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
|         | ug/l            | ug/l       |          | %       |               | %              |
| Methane | 4330            | 4280       | 1        | 1.22    |               | 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) R3409706-5 05/09/19 13:51 • (LCSD) R3409706-6 05/09/19 13:57

| Analyte | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD<br>% | RPD Limits<br>% |
|---------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Methane | 67.8                 | 78.0               | 73.3                | 115           | 108            | 85.0-115         |                      |                       | 6.21     | 20              |
| Ethane  | 129                  | 120                | 115                 | 93.0          | 89.2           | 85.0-115         |                      |                       | 4.26     | 20              |
| Ethene  | 127                  | 119                | 114                 | 93.9          | 89.9           | 85.0-115         |                      |                       | 4.37     | 20              |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3409768-4 05/09/19 16:33

| Analyte | MB Result<br>ug/l | <u>MB Qualifier</u> | MB MDL<br>ug/l | MB RDL<br>ug/l |
|---------|-------------------|---------------------|----------------|----------------|
| Methane | U                 |                     | 0.287          | 0.678          |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

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

(LCS) R3409768-2 05/09/19 16:38 • (LCSD) R3409768-3 05/09/19 16:51

| Analyte | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD<br>% | RPD Limits<br>% |
|---------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Methane | 67.8                 | 76.4               | 75.7                | 113           | 112            | 85.0-115         |                      |                       | 0.878    | 20              |

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3408279-3 05/03/19 10:11

| Analyte                     | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>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            | 0.161             | 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           |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3408279-3 05/03/19 10:11

| Analyte                        | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>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       | 0.354             | 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          |
| 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         | 0.204             | 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                 | 96.9              |              |                | 80.0-120       |
| (S) 4-Bromofluorobenzene       | 109               |              |                | 77.0-126       |
| (S) 1,2-Dichloroethane-d4      | 95.5              |              |                | 70.0-130       |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



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

(LCS) R3408279-1 05/03/19 09:11 • (LCSD) R3408279-2 05/03/19 09:31

| Analyte                     | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Bromochloromethane          | 25.0                 | 23.6               | 23.2                | 94.4          | 92.7           | 76.0-122         |               |                | 1.83     | 20              |
| Carbon disulfide            | 25.0                 | 30.4               | 27.8                | 122           | 111            | 61.0-128         |               |                | 8.91     | 20              |
| Acetone                     | 125                  | 219                | 178                 | 175           | 143            | 19.0-160         | J4            |                | 20.2     | 27              |
| Acrylonitrile               | 125                  | 158                | 150                 | 126           | 120            | 55.0-149         |               |                | 4.85     | 20              |
| Benzene                     | 25.0                 | 25.8               | 25.3                | 103           | 101            | 70.0-123         |               |                | 1.86     | 20              |
| Bromobenzene                | 25.0                 | 23.5               | 22.3                | 94.1          | 89.2           | 73.0-121         |               |                | 5.42     | 20              |
| Bromodichloromethane        | 25.0                 | 22.8               | 23.0                | 91.1          | 92.0           | 75.0-120         |               |                | 0.918    | 20              |
| Bromoform                   | 25.0                 | 25.6               | 25.6                | 103           | 102            | 68.0-132         |               |                | 0.0628   | 20              |
| Bromomethane                | 25.0                 | 13.6               | 14.7                | 54.4          | 58.7           | 10.0-160         |               |                | 7.66     | 25              |
| trans-1,4-Dichloro-2-butene | 25.0                 | 21.8               | 21.0                | 87.1          | 83.8           | 33.0-144         |               |                | 3.80     | 20              |
| n-Butylbenzene              | 25.0                 | 20.8               | 20.4                | 83.4          | 81.5           | 73.0-125         |               |                | 2.25     | 20              |
| sec-Butylbenzene            | 25.0                 | 21.8               | 21.3                | 87.3          | 85.1           | 75.0-125         |               |                | 2.54     | 20              |
| tert-Butylbenzene           | 25.0                 | 22.7               | 22.0                | 90.9          | 87.8           | 76.0-124         |               |                | 3.40     | 20              |
| 2-Hexanone                  | 125                  | 136                | 141                 | 109           | 113            | 67.0-149         |               |                | 3.52     | 20              |
| Carbon tetrachloride        | 25.0                 | 23.9               | 23.2                | 95.5          | 92.8           | 68.0-126         |               |                | 2.86     | 20              |
| Chlorobenzene               | 25.0                 | 23.1               | 22.3                | 92.6          | 89.4           | 80.0-121         |               |                | 3.55     | 20              |
| n-Hexane                    | 25.0                 | 30.4               | 26.5                | 122           | 106            | 57.0-133         |               |                | 13.6     | 20              |
| Chlorodibromomethane        | 25.0                 | 23.3               | 22.7                | 93.2          | 90.6           | 77.0-125         |               |                | 2.80     | 20              |
| Iodomethane                 | 125                  | 136                | 128                 | 109           | 103            | 33.0-147         |               |                | 5.82     | 26              |
| Chloroethane                | 25.0                 | 15.9               | 14.4                | 63.6          | 57.6           | 47.0-150         |               |                | 9.85     | 20              |
| Chloroform                  | 25.0                 | 21.9               | 21.6                | 87.7          | 86.4           | 73.0-120         |               |                | 1.44     | 20              |
| Chloromethane               | 25.0                 | 23.0               | 22.7                | 92.1          | 90.9           | 41.0-142         |               |                | 1.34     | 20              |
| 2-Chlorotoluene             | 25.0                 | 22.3               | 21.0                | 89.2          | 84.1           | 76.0-123         |               |                | 5.95     | 20              |
| 4-Chlorotoluene             | 25.0                 | 22.4               | 21.7                | 89.8          | 86.7           | 75.0-122         |               |                | 3.49     | 20              |
| 1,2-Dibromo-3-Chloropropane | 25.0                 | 23.9               | 24.2                | 95.8          | 96.7           | 58.0-134         |               |                | 0.974    | 20              |
| 1,2-Dibromoethane           | 25.0                 | 22.3               | 21.9                | 89.3          | 87.4           | 80.0-122         |               |                | 2.13     | 20              |
| Dibromomethane              | 25.0                 | 22.5               | 22.8                | 90.2          | 91.2           | 80.0-120         |               |                | 1.13     | 20              |
| 1,2-Dichlorobenzene         | 25.0                 | 22.6               | 21.9                | 90.5          | 87.6           | 79.0-121         |               |                | 3.21     | 20              |
| 1,3-Dichlorobenzene         | 25.0                 | 22.3               | 21.3                | 89.4          | 85.0           | 79.0-120         |               |                | 5.00     | 20              |
| 1,4-Dichlorobenzene         | 25.0                 | 21.3               | 20.8                | 85.4          | 83.1           | 79.0-120         |               |                | 2.71     | 20              |
| Dichlorodifluoromethane     | 25.0                 | 23.6               | 23.1                | 94.4          | 92.3           | 51.0-149         |               |                | 2.24     | 20              |
| 1,1-Dichloroethane          | 25.0                 | 25.7               | 24.0                | 103           | 96.0           | 70.0-126         |               |                | 6.87     | 20              |
| 1,2-Dichloroethane          | 25.0                 | 21.7               | 21.4                | 86.9          | 85.7           | 70.0-128         |               |                | 1.44     | 20              |
| 1,1-Dichloroethene          | 25.0                 | 26.0               | 24.4                | 104           | 97.5           | 71.0-124         |               |                | 6.63     | 20              |
| cis-1,2-Dichloroethene      | 25.0                 | 24.0               | 23.2                | 96.1          | 93.0           | 73.0-120         |               |                | 3.33     | 20              |
| trans-1,2-Dichloroethene    | 25.0                 | 25.7               | 23.4                | 103           | 93.6           | 73.0-120         |               |                | 9.57     | 20              |
| 1,2-Dichloropropane         | 25.0                 | 26.0               | 26.5                | 104           | 106            | 77.0-125         |               |                | 1.81     | 20              |
| 1,1-Dichloropropene         | 25.0                 | 24.8               | 23.8                | 99.0          | 95.4           | 74.0-126         |               |                | 3.76     | 20              |
| 1,3-Dichloropropane         | 25.0                 | 23.4               | 23.8                | 93.7          | 95.1           | 80.0-120         |               |                | 1.44     | 20              |
| cis-1,3-Dichloropropene     | 25.0                 | 23.2               | 23.2                | 92.9          | 92.6           | 80.0-123         |               |                | 0.332    | 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) R3408279-1 05/03/19 09:11 • (LCSD) R3408279-2 05/03/19 09:31

| Analyte                        | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD<br>% | RPD Limits<br>% |
|--------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Vinyl acetate                  | 125                  | 73.8               | 88.3                | 59.0          | 70.6           | 11.0-160         |                      |                       | 17.8     | 20              |
| trans-1,3-Dichloropropene      | 25.0                 | 22.1               | 22.2                | 88.6          | 88.9           | 78.0-124         |                      |                       | 0.338    | 20              |
| 2,2-Dichloropropane            | 25.0                 | 27.7               | 26.5                | 111           | 106            | 58.0-130         |                      |                       | 4.72     | 20              |
| Di-isopropyl ether             | 25.0                 | 30.0               | 26.8                | 120           | 107            | 58.0-138         |                      |                       | 11.3     | 20              |
| Ethylbenzene                   | 25.0                 | 23.3               | 22.6                | 93.2          | 90.5           | 79.0-123         |                      |                       | 3.03     | 20              |
| Hexachloro-1,3-butadiene       | 25.0                 | 25.3               | 26.0                | 101           | 104            | 54.0-138         |                      |                       | 2.57     | 20              |
| Isopropylbenzene               | 25.0                 | 24.3               | 24.0                | 97.1          | 96.1           | 76.0-127         |                      |                       | 1.00     | 20              |
| p-Isopropyltoluene             | 25.0                 | 22.2               | 21.5                | 88.7          | 86.0           | 76.0-125         |                      |                       | 3.11     | 20              |
| 2-Butanone (MEK)               | 125                  | 158                | 157                 | 126           | 126            | 44.0-160         |                      |                       | 0.414    | 20              |
| Methylene Chloride             | 25.0                 | 26.5               | 23.3                | 106           | 93.4           | 67.0-120         |                      |                       | 12.5     | 20              |
| 4-Methyl-2-pentanone (MIBK)    | 125                  | 133                | 140                 | 107           | 112            | 68.0-142         |                      |                       | 4.67     | 20              |
| Methyl tert-butyl ether        | 25.0                 | 26.1               | 23.2                | 104           | 92.9           | 68.0-125         |                      |                       | 11.5     | 20              |
| Naphthalene                    | 25.0                 | 19.8               | 21.0                | 79.2          | 83.9           | 54.0-135         |                      |                       | 5.77     | 20              |
| n-Propylbenzene                | 25.0                 | 22.1               | 21.0                | 88.5          | 83.8           | 77.0-124         |                      |                       | 5.39     | 20              |
| Styrene                        | 25.0                 | 26.2               | 26.0                | 105           | 104            | 73.0-130         |                      |                       | 0.613    | 20              |
| 1,1,1,2-Tetrachloroethane      | 25.0                 | 23.0               | 22.5                | 92.0          | 90.0           | 75.0-125         |                      |                       | 2.14     | 20              |
| 1,1,2,2-Tetrachloroethane      | 25.0                 | 20.9               | 20.3                | 83.5          | 81.4           | 65.0-130         |                      |                       | 2.55     | 20              |
| Tetrachloroethene              | 25.0                 | 23.8               | 23.6                | 95.2          | 94.3           | 72.0-132         |                      |                       | 0.966    | 20              |
| Toluene                        | 25.0                 | 25.2               | 24.2                | 101           | 96.6           | 79.0-120         |                      |                       | 4.17     | 20              |
| 1,1,2-Trichlorotrifluoroethane | 25.0                 | 24.4               | 22.9                | 97.5          | 91.7           | 69.0-132         |                      |                       | 6.13     | 20              |
| 1,2,3-Trichlorobenzene         | 25.0                 | 20.8               | 21.9                | 83.3          | 87.5           | 50.0-138         |                      |                       | 4.93     | 20              |
| 1,2,4-Trichlorobenzene         | 25.0                 | 22.0               | 22.1                | 87.8          | 88.4           | 57.0-137         |                      |                       | 0.723    | 20              |
| 1,1,1-Trichloroethane          | 25.0                 | 24.0               | 23.4                | 96.1          | 93.6           | 73.0-124         |                      |                       | 2.65     | 20              |
| 1,1,2-Trichloroethane          | 25.0                 | 21.3               | 21.5                | 85.1          | 86.2           | 80.0-120         |                      |                       | 1.29     | 20              |
| Trichloroethene                | 25.0                 | 26.0               | 24.9                | 104           | 99.8           | 78.0-124         |                      |                       | 4.20     | 20              |
| Trichlorofluoromethane         | 25.0                 | 15.9               | 15.1                | 63.4          | 60.4           | 59.0-147         |                      |                       | 4.90     | 20              |
| 1,2,3-Trichloropropane         | 25.0                 | 20.1               | 19.3                | 80.6          | 77.2           | 73.0-130         |                      |                       | 4.21     | 20              |
| 1,2,3-Trimethylbenzene         | 25.0                 | 21.4               | 20.8                | 85.7          | 83.1           | 77.0-120         |                      |                       | 3.06     | 20              |
| 1,2,4-Trimethylbenzene         | 25.0                 | 21.8               | 20.7                | 87.2          | 82.9           | 76.0-121         |                      |                       | 4.96     | 20              |
| 1,3,5-Trimethylbenzene         | 25.0                 | 22.1               | 21.1                | 88.2          | 84.4           | 76.0-122         |                      |                       | 4.41     | 20              |
| Vinyl chloride                 | 25.0                 | 16.6               | 16.2                | 66.5          | 64.6           | 67.0-131         | <u>J4</u>            | <u>J4</u>             | 2.92     | 20              |
| Xylenes, Total                 | 75.0                 | 71.1               | 69.3                | 94.8          | 92.4           | 79.0-123         |                      |                       | 2.56     | 20              |
| (S) Toluene-d8                 |                      |                    |                     | 98.5          | 96.4           | 80.0-120         |                      |                       |          |                 |
| (S) 4-Bromofluorobenzene       |                      |                    |                     | 107           | 110            | 77.0-126         |                      |                       |          |                 |
| (S) 1,2-Dichloroethane-d4      |                      |                    |                     | 96.5          | 94.6           | 70.0-130         |                      |                       |          |                 |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Method Blank (MB)

(MB) R3408889-3 05/05/19 09:45

| Analyte                   | MB Result | MB Qualifier | MB MDL | MB RDL   |
|---------------------------|-----------|--------------|--------|----------|
|                           | ug/l      |              | ug/l   | ug/l     |
| cis-1,2-Dichloroethene    | U         |              | 0.0933 | 0.500    |
| Tetrachloroethene         | U         |              | 0.199  | 0.500    |
| Vinyl chloride            | U         |              | 0.118  | 0.500    |
| (S) Toluene-d8            | 97.6      |              |        | 80.0-120 |
| (S) 4-Bromofluorobenzene  | 104       |              |        | 77.0-126 |
| (S) 1,2-Dichloroethane-d4 | 95.4      |              |        | 70.0-130 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

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

(LCS) R3408889-1 05/05/19 08:45 • (LCSD) R3408889-2 05/05/19 09:05

| 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        | %        | %         | %           |               |                | %    | %          |
| cis-1,2-Dichloroethene    | 25.0         | 26.5       | 26.9        | 106      | 107       | 73.0-120    |               |                | 1.21 | 20         |
| Tetrachloroethene         | 25.0         | 25.6       | 27.0        | 103      | 108       | 72.0-132    |               |                | 5.20 | 20         |
| Vinyl chloride            | 25.0         | 23.4       | 23.7        | 93.8     | 94.8      | 67.0-131    |               |                | 1.12 | 20         |
| (S) Toluene-d8            |              |            |             | 96.1     | 102       | 80.0-120    |               |                |      |            |
| (S) 4-Bromofluorobenzene  |              |            |             | 100      | 108       | 77.0-126    |               |                |      |            |
| (S) 1,2-Dichloroethane-d4 |              |            |             | 90.9     | 96.1      | 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

|                              |  |
|------------------------------|--|
| 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.   |
| 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.   |
| P1 | RPD value not applicable for sample concentrations less than 5 times the reporting limit.   |
| 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 <sup>1</sup>     | n/a              |
| Colorado                | TN00003     | New York                    | 11742            |
| Connecticut             | PH-0197     | North Carolina              | Env375           |
| Florida                 | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                 | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>    | 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 <sup>1,6</sup> | 90010       | South Carolina              | 84004            |
| Kentucky <sup>2</sup>   | 16          | South Dakota                | n/a              |
| Louisiana               | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana <sup>1</sup>  | LA180010    | Texas                       | T104704245-18-15 |
| Maine                   | TN0002      | Texas <sup>5</sup>          | 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 <sup>5</sup> | 1461.02 | DOD                | 1461.01       |
| Canada                        | 1461.01 | USDA               | P330-15-00234 |
| EPA-Crypto                    | TN00003 |                    |               |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**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 Linsen*

City/State Collected: *Seattle, WA*

Client Project #: *1413.001.05.601*

Lab Project #: **PESENVSWA-ALP**

Phone: **206-529-3980**

Fax: **206-529-3985**

Collected by (print): *Ben Flecht*

Site/Facility ID #: *American Linsen*

Collected by (signature): *[Signature]*

Immediately Packed on Ice N  Y

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

Quote #: *STAT*

Date Results Needed: *STAT*

Chain of Custody Page      of     

**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# *11094387*

**A006**

Acctnum: **PESENVSWA**

Template: **T149294**

Prelogin: **P704872**

TSR: **110 - Brian Ford**

PB:

Shipped Via:

| Sample ID          | Comp/Grab | Matrix * | Depth | Date    | Time | Cntrs | NWTPHGX 40miAmb HCl | VOCs 8260LLC 40miAmb-HCl | NO3, SO4 Cl (125mL) | Alkalinity (125mL) | REM (RSK175LL) (40mL) | TOC Fe 250mL | Total Fe Mn 6020 | Remarks | Sample # (lab only) |
|--------------------|-----------|----------|-------|---------|------|-------|---------------------|--------------------------|---------------------|--------------------|-----------------------|--------------|------------------|---------|---------------------|
| MW109-042919       | Grab      | GW       | 40    | 4/29/19 | 0845 | 3     |                     |                          |                     |                    |                       |              |                  |         | -01                 |
| MW108-042919       |           | GW       | 45    | 4/29/19 | 0950 | 3     |                     |                          |                     |                    |                       |              |                  |         | -02                 |
| MW126-042919       |           | GW       | 90    |         | 1045 | 3     |                     |                          |                     |                    |                       |              |                  |         | -03                 |
| MW119-042919       |           | GW       | 40    |         | 1220 | 3     |                     |                          |                     |                    |                       |              |                  |         | -04                 |
| MW121-042919       |           | GW       | 20    |         | 1335 | 6     |                     |                          |                     |                    |                       |              |                  |         | -05                 |
| MW-161-050119      | Grab      | GW       | 125   | 5/1/19  | 0925 | 12    |                     |                          |                     |                    |                       |              |                  |         | -06                 |
| MW107-050119       |           | GW       | 40    |         | 1110 | 12    |                     |                          |                     |                    |                       |              |                  |         | -07                 |
| FMW-129-050119     |           | GW       | 87    |         | 1400 | 3     |                     |                          |                     |                    |                       |              |                  |         | -08                 |
| TRIP ISLANK-050119 |           | GW       | -     |         | -    | 4     |                     |                          |                     |                    |                       |              |                  |         | -09                 |

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

Remarks: *Tier 2 lab QA/QC, email*

Samples returned via:  
 UPS  FedEx  Courier

Tracking # *4686 6469 9419*

Relinquished by: (Signature) *[Signature]* Date: *5-1-19* Time: *16:00*

Received by: (Signature) *[Signature]* Trip Blank Received:  Yes  No  
 HCL  MeOH  TBR

Temp: *22.0* °C Bottles Received: *2.1*  45

Relinquished by: (Signature) *[Signature]* Date: *5-1-19* Time: *16:30*

Received by: (Signature) *[Signature]*

Relinquished by: (Signature) *[Signature]* Date: *5-2-19* Time: *8:45*

Received for lab by: (Signature) *[Signature]* Date: *5-2-19* 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

VOA Zero Headspace:  Y  N

Preservation Correct/Checked:  Y  N

If preservation required by Login: Date/Time



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

| Analyte                     | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch     |
|-----------------------------|--------|-----------|--------|-------|----------|------------------|-----------|
|                             | ug/l   |           | ug/l   | ug/l  |          | date / time      |           |
| Acetone                     | 3.78   | U J4      | 1.05   | 25.0  | 1        | 05/03/2019 18:20 | WG1275813 |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 05/03/2019 18:20 | WG1275813 |
| Benzene                     | U      |           | 0.0896 | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Bromomethane                | U      |           | 0.157  | 2.50  | 1        | 05/03/2019 18:20 | WG1275813 |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Chloroethane                | U      | UJ JO     | 0.141  | 2.50  | 1        | 05/03/2019 18:20 | WG1275813 |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Chloromethane               | U      | UJ JO     | 0.153  | 1.25  | 1        | 05/03/2019 18:20 | WG1275813 |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,1-Dichloroethane          | U      |           | 0.114  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,1-Dichloroethene          | U      |           | 0.188  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| cis-1,2-Dichloroethene      | 4.78   |           | 0.0933 | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| trans-1,2-Dichloroethene    | U      |           | 0.152  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 05/03/2019 18:20 | WG1275813 |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 05/03/2019 18:20 | WG1275813 |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Di-isopropyl ether          | U      |           | 0.0924 | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 05/03/2019 18:20 | WG1275813 |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 05/03/2019 18:20 | WG1275813 |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 05/03/2019 18:20 | WG1275813 |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 05/03/2019 18:20 | WG1275813 |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 05/03/2019 18:20 | WG1275813 |
| Methylene Chloride          | U      |           | 1.07   | 2.50  | 1        | 05/03/2019 18:20 | WG1275813 |
| 4-Methyl-2-pentanone (MIBK) | U      |           | 0.823  | 5.00  | 1        | 05/03/2019 18:20 | WG1275813 |
| Methyl tert-butyl ether     | U      |           | 0.102  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Naphthalene                 | U      | UJ JO     | 0.174  | 2.50  | 1        | 05/03/2019 18:20 | WG1275813 |
| n-Propylbenzene             | U      |           | 0.162  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| Styrene                     | U      |           | 0.117  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,1,1,2-Tetrachloroethane   | U      |           | 0.120  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |
| 1,1,2,2-Tetrachloroethane   | U      |           | 0.130  | 0.500 | 1        | 05/03/2019 18:20 | WG1275813 |

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

JC 5/22/19





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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| Vinyl acetate                  | U              | UJ JO     | 0.645       | 5.00        | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| Vinyl chloride                 | 3.06           | J JO J4   | 0.118       | 0.500       | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| (S) Toluene-d8                 | 98.4           |           |             | 80.0-120    |          | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| (S) 4-Bromofluorobenzene       | 104            |           |             | 77.0-126    |          | 05/03/2019 18:20        | <a href="#">WG1275813</a> |
| (S) 1,2-Dichloroethane-d4      | 95.8           |           |             | 70.0-130    |          | 05/03/2019 18:20        | <a href="#">WG1275813</a> |

- 1 Cp
- 2 Tc
- 3 Ss
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- 6 Qc
- 7 Gl
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- 9 Sc

JC 5/22/19



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

| Analyte                     | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch     |
|-----------------------------|--------|-----------|--------|-------|----------|------------------|-----------|
|                             | ug/l   |           | ug/l   | ug/l  |          | date / time      |           |
| Acetone                     | 3.41   | U J4      | 1.05   | 25.0  | 1        | 05/03/2019 18:41 | WG1275813 |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 05/03/2019 18:41 | WG1275813 |
| Benzene                     | 3.20   |           | 0.0896 | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Bromomethane                | U      |           | 0.157  | 2.50  | 1        | 05/03/2019 18:41 | WG1275813 |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Chloroethane                | U      | UJ JO     | 0.141  | 2.50  | 1        | 05/03/2019 18:41 | WG1275813 |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Chloromethane               | U      | UJ JO     | 0.153  | 1.25  | 1        | 05/03/2019 18:41 | WG1275813 |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,1-Dichloroethane          | U      |           | 0.114  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,1-Dichloroethene          | 3.57   |           | 0.188  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| cis-1,2-Dichloroethene      | 970    |           | 1.87   | 10.0  | 20       | 05/05/2019 18:24 | WG1276343 |
| trans-1,2-Dichloroethene    | 3.22   |           | 0.152  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 05/03/2019 18:41 | WG1275813 |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 05/03/2019 18:41 | WG1275813 |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Di-isopropyl ether          | U      |           | 0.0924 | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 05/03/2019 18:41 | WG1275813 |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 05/03/2019 18:41 | WG1275813 |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 05/03/2019 18:41 | WG1275813 |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 05/03/2019 18:41 | WG1275813 |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 05/03/2019 18:41 | WG1275813 |
| Methylene Chloride          | U      |           | 1.07   | 2.50  | 1        | 05/03/2019 18:41 | WG1275813 |
| 4-Methyl-2-pentanone (MIBK) | U      |           | 0.823  | 5.00  | 1        | 05/03/2019 18:41 | WG1275813 |
| Methyl tert-butyl ether     | U      |           | 0.102  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Naphthalene                 | U      | UJ JO     | 0.174  | 2.50  | 1        | 05/03/2019 18:41 | WG1275813 |
| n-Propylbenzene             | U      |           | 0.162  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| Styrene                     | U      |           | 0.117  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,1,1,2-Tetrachloroethane   | U      |           | 0.120  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |
| 1,1,2,2-Tetrachloroethane   | U      |           | 0.130  | 0.500 | 1        | 05/03/2019 18:41 | WG1275813 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/22/19



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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| Tetrachloroethene              | 419            |           | 3.98        | 10.0        | 20       | 05/05/2019 18:24        | <a href="#">WG1276343</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| Trichloroethene                | 171            |           | 0.153       | 0.500       | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| Vinyl acetate                  | U              | UJ JO     | 0.645       | 5.00        | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| Vinyl chloride                 | 125            | J JO J4   | 0.118       | 0.500       | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| (S) Toluene-d8                 | 99.2           |           |             | 80.0-120    |          | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| (S) Toluene-d8                 | 96.9           |           |             | 80.0-120    |          | 05/05/2019 18:24        | <a href="#">WG1276343</a> |
| (S) 4-Bromofluorobenzene       | 106            |           |             | 77.0-126    |          | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| (S) 4-Bromofluorobenzene       | 101            |           |             | 77.0-126    |          | 05/05/2019 18:24        | <a href="#">WG1276343</a> |
| (S) 1,2-Dichloroethane-d4      | 95.3           |           |             | 70.0-130    |          | 05/03/2019 18:41        | <a href="#">WG1275813</a> |
| (S) 1,2-Dichloroethane-d4      | 94.4           |           |             | 70.0-130    |          | 05/05/2019 18:24        | <a href="#">WG1276343</a> |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
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- 9 Sc

JC 5/22/19





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

| Analyte                     | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch     |
|-----------------------------|--------|-----------|--------|-------|----------|------------------|-----------|
|                             | ug/l   |           | ug/l   | ug/l  |          | date / time      |           |
| Acetone                     | 2.18   | U J J4    | 1.05   | 25.0  | 1        | 05/03/2019 19:01 | WG1275813 |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 05/03/2019 19:01 | WG1275813 |
| Benzene                     | U      |           | 0.0896 | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Bromomethane                | U      |           | 0.157  | 2.50  | 1        | 05/03/2019 19:01 | WG1275813 |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Chloroethane                | U      | UJ JO     | 0.141  | 2.50  | 1        | 05/03/2019 19:01 | WG1275813 |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Chloromethane               | U      | UJ JO     | 0.153  | 1.25  | 1        | 05/03/2019 19:01 | WG1275813 |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,1-Dichloroethane          | U      |           | 0.114  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,1-Dichloroethene          | U      |           | 0.188  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| cis-1,2-Dichloroethene      | U      |           | 0.0933 | 0.500 | 1        | 05/05/2019 18:04 | WG1276343 |
| trans-1,2-Dichloroethene    | U      |           | 0.152  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 05/03/2019 19:01 | WG1275813 |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 05/03/2019 19:01 | WG1275813 |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Di-isopropyl ether          | U      |           | 0.0924 | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 05/03/2019 19:01 | WG1275813 |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 05/03/2019 19:01 | WG1275813 |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 05/03/2019 19:01 | WG1275813 |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 05/03/2019 19:01 | WG1275813 |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 05/03/2019 19:01 | WG1275813 |
| Methylene Chloride          | U      |           | 1.07   | 2.50  | 1        | 05/03/2019 19:01 | WG1275813 |
| 4-Methyl-2-pentanone (MIBK) | U      |           | 0.823  | 5.00  | 1        | 05/03/2019 19:01 | WG1275813 |
| Methyl tert-butyl ether     | U      |           | 0.102  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Naphthalene                 | U      | UJ JO     | 0.174  | 2.50  | 1        | 05/03/2019 19:01 | WG1275813 |
| n-Propylbenzene             | U      |           | 0.162  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| Styrene                     | U      |           | 0.117  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,1,1,2-Tetrachloroethane   | U      |           | 0.120  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |
| 1,1,2,2-Tetrachloroethane   | U      |           | 0.130  | 0.500 | 1        | 05/03/2019 19:01 | WG1275813 |

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

JC 5/22/19



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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 05/05/2019 18:04        | <a href="#">WG1276343</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| Vinyl acetate                  | U              | UJ JO     | 0.645       | 5.00        | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| Vinyl chloride                 | U              | UJ JO J4  | 0.118       | 0.500       | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| (S) Toluene-d8                 | 98.8           |           |             | 80.0-120    |          | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| (S) Toluene-d8                 | 97.5           |           |             | 80.0-120    |          | 05/05/2019 18:04        | <a href="#">WG1276343</a> |
| (S) 4-Bromofluorobenzene       | 103            |           |             | 77.0-126    |          | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| (S) 4-Bromofluorobenzene       | 101            |           |             | 77.0-126    |          | 05/05/2019 18:04        | <a href="#">WG1276343</a> |
| (S) 1,2-Dichloroethane-d4      | 98.5           |           |             | 70.0-130    |          | 05/03/2019 19:01        | <a href="#">WG1275813</a> |
| (S) 1,2-Dichloroethane-d4      | 94.4           |           |             | 70.0-130    |          | 05/05/2019 18:04        | <a href="#">WG1276343</a> |

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

JC 5/22/19



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                     | 1.90   | U J J4    | 1.05   | 25.0  | 1        | 05/03/2019 19:21 | WG1275813 |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 05/03/2019 19:21 | WG1275813 |
| Benzene                     | U      |           | 0.0896 | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Bromomethane                | U      |           | 0.157  | 2.50  | 1        | 05/03/2019 19:21 | WG1275813 |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Chloroethane                | U      | UJ JO     | 0.141  | 2.50  | 1        | 05/03/2019 19:21 | WG1275813 |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Chloromethane               | U      | UJ JO     | 0.153  | 1.25  | 1        | 05/03/2019 19:21 | WG1275813 |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,1-Dichloroethane          | U      |           | 0.114  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,1-Dichloroethene          | U      |           | 0.188  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| cis-1,2-Dichloroethene      | 10.9   |           | 0.0933 | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| trans-1,2-Dichloroethene    | 0.161  | J J       | 0.152  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 05/03/2019 19:21 | WG1275813 |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 05/03/2019 19:21 | WG1275813 |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Di-isopropyl ether          | U      |           | 0.0924 | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 05/03/2019 19:21 | WG1275813 |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 05/03/2019 19:21 | WG1275813 |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 05/03/2019 19:21 | WG1275813 |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 05/03/2019 19:21 | WG1275813 |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 05/03/2019 19:21 | WG1275813 |
| Methylene Chloride          | U      |           | 1.07   | 2.50  | 1        | 05/03/2019 19:21 | WG1275813 |
| 4-Methyl-2-pentanone (MIBK) | U      |           | 0.823  | 5.00  | 1        | 05/03/2019 19:21 | WG1275813 |
| Methyl tert-butyl ether     | U      |           | 0.102  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Naphthalene                 | U      | UJ JO     | 0.174  | 2.50  | 1        | 05/03/2019 19:21 | WG1275813 |
| n-Propylbenzene             | U      |           | 0.162  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| Styrene                     | U      |           | 0.117  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,1,1,2-Tetrachloroethane   | U      |           | 0.120  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |
| 1,1,2,2-Tetrachloroethane   | U      |           | 0.130  | 0.500 | 1        | 05/03/2019 19:21 | WG1275813 |

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

JC 5/22/19



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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| Tetrachloroethene              | 0.224          | J J       | 0.199       | 0.500       | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| Trichloroethene                | 1.12           |           | 0.153       | 0.500       | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| Vinyl acetate                  | U              | UJ JO     | 0.645       | 5.00        | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| Vinyl chloride                 | U              | UJ JO J4  | 0.118       | 0.500       | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| (S) Toluene-d8                 | 98.2           |           |             | 80.0-120    |          | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| (S) 4-Bromofluorobenzene       | 103            |           |             | 77.0-126    |          | 05/03/2019 19:21        | <a href="#">WG1275813</a> |
| (S) 1,2-Dichloroethane-d4      | 96.1           |           |             | 70.0-130    |          | 05/03/2019 19:21        | <a href="#">WG1275813</a> |

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

JC 5/22/19



Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | U              |           | 31.6        | 100         | 1        | 05/02/2019 18:28        | <a href="#">WG1275218</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 98.1           |           |             | 78.0-120    |          | 05/02/2019 18:28        | <a href="#">WG1275218</a> |

- 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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | 4.49           | U J J4    | 1.05        | 25.0        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Acrylonitrile               | U              |           | 0.873       | 5.00        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Benzene                     | U              |           | 0.0896      | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Bromobenzene                | U              |           | 0.133       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Bromodichloromethane        | U              |           | 0.0800      | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Bromochloromethane          | U              |           | 0.145       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Bromoform                   | U              |           | 0.186       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Bromomethane                | U              |           | 0.157       | 2.50        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| n-Butylbenzene              | U              |           | 0.143       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| sec-Butylbenzene            | U              |           | 0.134       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| tert-Butylbenzene           | U              |           | 0.183       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Carbon disulfide            | U              |           | 0.101       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Carbon tetrachloride        | U              |           | 0.159       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Chlorobenzene               | U              |           | 0.140       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Chlorodibromomethane        | U              |           | 0.128       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Chloroethane                | U              | UJ JO     | 0.141       | 2.50        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Chloroform                  | U              |           | 0.0860      | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Chloromethane               | U              | UJ JO     | 0.153       | 1.25        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 2-Chlorotoluene             | U              |           | 0.111       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 4-Chlorotoluene             | U              |           | 0.0972      | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,2-Dibromo-3-Chloropropane | U              |           | 0.325       | 2.50        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,2-Dibromoethane           | U              |           | 0.193       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Dibromomethane              | U              |           | 0.117       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,2-Dichlorobenzene         | U              |           | 0.101       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,3-Dichlorobenzene         | U              |           | 0.130       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,4-Dichlorobenzene         | U              |           | 0.121       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Dichlorodifluoromethane     | U              |           | 0.127       | 2.50        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,1-Dichloroethane          | U              |           | 0.114       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,2-Dichloroethane          | U              |           | 0.108       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,1-Dichloroethene          | U              |           | 0.188       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| cis-1,2-Dichloroethene      | 5.39           |           | 0.0933      | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| trans-1,2-Dichloroethene    | U              |           | 0.152       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,2-Dichloropropane         | U              |           | 0.190       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,1-Dichloropropene         | U              |           | 0.128       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 1,3-Dichloropropane         | U              |           | 0.147       | 1.00        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| cis-1,3-Dichloropropene     | U              |           | 0.0976      | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| trans-1,3-Dichloropropene   | U              |           | 0.222       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| trans-1,4-Dichloro-2-butene | U              |           | 0.257       | 5.00        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 2,2-Dichloropropane         | U              |           | 0.0929      | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Di-isopropyl ether          | U              |           | 0.0924      | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Ethylbenzene                | U              |           | 0.158       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Hexachloro-1,3-butadiene    | U              |           | 0.157       | 1.00        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 2-Hexanone                  | U              |           | 0.757       | 5.00        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| n-Hexane                    | U              |           | 0.305       | 5.00        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Iodomethane                 | U              |           | 0.377       | 10.0        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| Isopropylbenzene            | U              |           | 0.126       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| p-Isopropyltoluene          | U              |           | 0.138       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |
| 2-Butanone (MEK)            | U              |           | 1.28        | 5.00        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a> |

JC 5/22/19



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

| Analyte                        | Result<br>ug/l | Qualifier             | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch   |
|--------------------------------|----------------|-----------------------|-------------|-------------|----------|-------------------------|---|
| Methylene Chloride             | U              |                       | 1.07        | 2.50        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |
| 4-Methyl-2-pentanone (MIBK)    | U              |                       | 0.823       | 5.00        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |
| Methyl tert-butyl ether        | U              |                       | 0.102       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |
| Naphthalene                    | U              | <b>UJ</b> <u>JO</u>   | 0.174       | 2.50        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |
| n-Propylbenzene                | U              |                       | 0.162       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |
| Styrene                        | U              |                       | 0.117       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |
| 1,1,1,2-Tetrachloroethane      | U              |                       | 0.120       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |
| 1,1,2,2-Tetrachloroethane      | U              |                       | 0.130       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |
| 1,1,2-Trichlorotrifluoroethane | U              |                       | 0.164       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |
| Tetrachloroethene              | U              |                       | 0.199       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |
| Toluene                        | U              |                       | 0.412       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |
| 1,2,3-Trichlorobenzene         | U              |                       | 0.164       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |
| 1,2,4-Trichlorobenzene         | U              |                       | 0.355       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |
| 1,1,1-Trichloroethane          | U              |                       | 0.0940      | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |
| 1,1,2-Trichloroethane          | U              |                       | 0.186       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |
| Trichloroethene                | U              |                       | 0.153       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |
| Trichlorofluoromethane         | U              | <b>UJ</b> <u>JO</u>   | 0.130       | 2.50        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |
| 1,2,3-Trichloropropane         | U              |                       | 0.247       | 2.50        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |
| 1,2,4-Trimethylbenzene         | U              |                       | 0.123       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |
| 1,2,3-Trimethylbenzene         | U              |                       | 0.0739      | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |
| 1,3,5-Trimethylbenzene         | U              |                       | 0.124       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |
| Vinyl acetate                  | U              | <b>UJ</b> <u>JO</u>   | 0.645       | 5.00        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |
| Vinyl chloride                 | 15.2           | <b>J</b> <u>JO J4</u> | 0.118       | 0.500       | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |
| Xylenes, Total                 | U              |                       | 0.316       | 1.50        | 1        | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |
| (S) Toluene-d8                 | 96.6           |                       |             | 80.0-120    |          | 05/03/2019 19:41        | <a href="#">WG1275813</a> <span style="float: right;">JC 5/22/19</span> |
| (S) 4-Bromofluorobenzene       | 101            |                       |             | 77.0-126    |          | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |
| (S) 1,2-Dichloroethane-d4      | 96.1           |                       |             | 70.0-130    |          | 05/03/2019 19:41        | <a href="#">WG1275813</a>   |

- 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 | Qualifier | MDL  | RDL   | Dilution | Analysis date / time | Batch                     |
|------------|--------|-----------|------|-------|----------|----------------------|---------------------------|
| Alkalinity | 293000 |           | 2710 | 20000 | 1        | 05/07/2019 19:50     | <a href="#">WG1276578</a> |

Sample Narrative:

L1094387-06 WG1276578: Endpoint pH 4.5

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis date / time | Batch                     |
|----------|--------|-----------|------|------|----------|----------------------|---------------------------|
| Chloride | 25500  |           | 51.9 | 1000 | 1        | 05/02/2019 11:27     | <a href="#">WG1274986</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 05/02/2019 11:27     | <a href="#">WG1274986</a> |
| Sulfate  | 12200  |           | 77.4 | 5000 | 1        | 05/02/2019 11:27     | <a href="#">WG1274986</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier    | MDL | RDL  | Dilution | Analysis date / time | Batch                     |
|----------------------------|--------|--------------|-----|------|----------|----------------------|---------------------------|
| TOC (Total Organic Carbon) | 1580   | <del>B</del> | 102 | 1000 | 1        | 05/02/2019 21:22     | <a href="#">WG1275023</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis date / time | Batch                     |
|-----------|--------|-----------|-------|------|----------|----------------------|---------------------------|
| Iron      | 5730   |           | 15.0  | 100  | 1        | 05/12/2019 22:10     | <a href="#">WG1275858</a> |
| Manganese | 795    |           | 0.250 | 5.00 | 1        | 05/12/2019 22:10     | <a href="#">WG1275858</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|----------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 05/02/2019 18:52     | <a href="#">WG1275218</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.6   |           |      | 78.0-120 |          | 05/02/2019 18:52     | <a href="#">WG1275218</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis date / time | Batch                     |
|---------|--------|-----------|-------|-------|----------|----------------------|---------------------------|
| Methane | 98.1   |           | 0.287 | 0.678 | 1        | 05/09/2019 11:39     | <a href="#">WG1277421</a> |
| Ethane  | U      |           | 0.296 | 1.29  | 1        | 05/09/2019 11:39     | <a href="#">WG1277421</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 05/09/2019 11:39     | <a href="#">WG1277421</a> |

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

JC 5/22/19

| Analyte              | Result | Qualifier | MDL    | RDL   | Dilution | Analysis date / time | Batch                     |
|----------------------|--------|-----------|--------|-------|----------|----------------------|---------------------------|
| Acetone              | 1.21   | U J J4    | 1.05   | 25.0  | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |
| Benzene              | U      |           | 0.0896 | 0.500 | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |
| Bromomethane         | U      |           | 0.157  | 2.50  | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |
| Carbon disulfide     | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 05/03/2019 20:01     | <a href="#">WG1275813</a> |

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      |           |
| Chlorobenzene                  | U      |           | 0.140  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| Chlorodibromomethane           | U      |           | 0.128  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| Chloroethane                   | U      | UJ JO     | 0.141  | 2.50  | 1        | 05/03/2019 20:01 | WG1275813 |
| Chloroform                     | U      |           | 0.0860 | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| Chloromethane                  | U      | UJ JO     | 0.153  | 1.25  | 1        | 05/03/2019 20:01 | WG1275813 |
| 2-Chlorotoluene                | U      |           | 0.111  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| 4-Chlorotoluene                | U      |           | 0.0972 | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| 1,2-Dibromo-3-Chloropropane    | U      |           | 0.325  | 2.50  | 1        | 05/03/2019 20:01 | WG1275813 |
| 1,2-Dibromoethane              | U      |           | 0.193  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| Dibromomethane                 | U      |           | 0.117  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| 1,2-Dichlorobenzene            | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| 1,3-Dichlorobenzene            | U      |           | 0.130  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| 1,4-Dichlorobenzene            | U      |           | 0.121  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| Dichlorodifluoromethane        | U      |           | 0.127  | 2.50  | 1        | 05/03/2019 20:01 | WG1275813 |
| 1,1-Dichloroethane             | U      |           | 0.114  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| 1,2-Dichloroethane             | U      |           | 0.108  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| 1,1-Dichloroethene             | 0.517  |           | 0.188  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| cis-1,2-Dichloroethene         | 1.15   |           | 0.0933 | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| trans-1,2-Dichloroethene       | U      |           | 0.152  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| 1,2-Dichloropropane            | U      |           | 0.190  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| 1,1-Dichloropropene            | U      |           | 0.128  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| 1,3-Dichloropropane            | U      |           | 0.147  | 1.00  | 1        | 05/03/2019 20:01 | WG1275813 |
| cis-1,3-Dichloropropene        | U      |           | 0.0976 | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| trans-1,3-Dichloropropene      | U      |           | 0.222  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| trans-1,4-Dichloro-2-butene    | U      |           | 0.257  | 5.00  | 1        | 05/03/2019 20:01 | WG1275813 |
| 2,2-Dichloropropane            | U      |           | 0.0929 | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| Di-isopropyl ether             | U      |           | 0.0924 | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| Ethylbenzene                   | U      |           | 0.158  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| Hexachloro-1,3-butadiene       | U      |           | 0.157  | 1.00  | 1        | 05/03/2019 20:01 | WG1275813 |
| 2-Hexanone                     | U      |           | 0.757  | 5.00  | 1        | 05/03/2019 20:01 | WG1275813 |
| n-Hexane                       | U      |           | 0.305  | 5.00  | 1        | 05/03/2019 20:01 | WG1275813 |
| Iodomethane                    | U      |           | 0.377  | 10.0  | 1        | 05/03/2019 20:01 | WG1275813 |
| Isopropylbenzene               | U      |           | 0.126  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| p-Isopropyltoluene             | U      |           | 0.138  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| 2-Butanone (MEK)               | U      |           | 1.28   | 5.00  | 1        | 05/03/2019 20:01 | WG1275813 |
| Methylene Chloride             | U      |           | 1.07   | 2.50  | 1        | 05/03/2019 20:01 | WG1275813 |
| 4-Methyl-2-pentanone (MIBK)    | U      |           | 0.823  | 5.00  | 1        | 05/03/2019 20:01 | WG1275813 |
| Methyl tert-butyl ether        | U      |           | 0.102  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| Naphthalene                    | U      | UJ JO     | 0.174  | 2.50  | 1        | 05/03/2019 20:01 | WG1275813 |
| n-Propylbenzene                | U      |           | 0.162  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| Styrene                        | U      |           | 0.117  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| 1,1,1,2-Tetrachloroethane      | U      |           | 0.120  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| 1,1,2,2-Tetrachloroethane      | U      |           | 0.130  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| 1,1,2-Trichlorotrifluoroethane | U      |           | 0.164  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| Tetrachloroethene              | 0.482  | J U       | 0.199  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| Toluene                        | U      |           | 0.412  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| 1,2,3-Trichlorobenzene         | U      |           | 0.164  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| 1,2,4-Trichlorobenzene         | U      |           | 0.355  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| 1,1,1-Trichloroethane          | U      |           | 0.0940 | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| 1,1,2-Trichloroethane          | U      |           | 0.186  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| Trichloroethene                | 1.66   |           | 0.153  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| Trichlorofluoromethane         | U      | UJ JO     | 0.130  | 2.50  | 1        | 05/03/2019 20:01 | WG1275813 |
| 1,2,3-Trichloropropane         | U      |           | 0.247  | 2.50  | 1        | 05/03/2019 20:01 | WG1275813 |
| 1,2,4-Trimethylbenzene         | U      |           | 0.123  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| 1,2,3-Trimethylbenzene         | U      |           | 0.0739 | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |
| 1,3,5-Trimethylbenzene         | U      |           | 0.124  | 0.500 | 1        | 05/03/2019 20:01 | WG1275813 |

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

JC 5/22/19





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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              | UJ JO     | 0.645       | 5.00        | 1        | 05/03/2019 20:01        | <a href="#">WG1275813</a> |
| Vinyl chloride            | U              | UJ JO J4  | 0.118       | 0.500       | 1        | 05/03/2019 20:01        | <a href="#">WG1275813</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 05/03/2019 20:01        | <a href="#">WG1275813</a> |
| (S) Toluene-d8            | 99.3           |           |             | 80.0-120    |          | 05/03/2019 20:01        | <a href="#">WG1275813</a> |
| (S) 4-Bromofluorobenzene  | 102            |           |             | 77.0-126    |          | 05/03/2019 20:01        | <a href="#">WG1275813</a> |
| (S) 1,2-Dichloroethane-d4 | 99.5           |           |             | 70.0-130    |          | 05/03/2019 20:01        | <a href="#">WG1275813</a> |

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

JC 5/22/19



Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis date / time | Batch                     |
|------------|--------|-----------|------|-------|----------|----------------------|---------------------------|
| Alkalinity | 538000 |           | 2710 | 20000 | 1        | 05/07/2019 19:58     | <a href="#">WG1276578</a> |

Sample Narrative:

L1094387-07 WG1276578: Endpoint pH 4.5

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis date / time | Batch                     |
|----------|--------|-----------|------|------|----------|----------------------|---------------------------|
| Chloride | 41600  |           | 51.9 | 1000 | 1        | 05/02/2019 12:24     | <a href="#">WG1274986</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 05/02/2019 12:24     | <a href="#">WG1274986</a> |
| Sulfate  | 51800  |           | 77.4 | 5000 | 1        | 05/02/2019 12:24     | <a href="#">WG1274986</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL | RDL  | Dilution | Analysis date / time | Batch                     |
|----------------------------|--------|-----------|-----|------|----------|----------------------|---------------------------|
| TOC (Total Organic Carbon) | 14200  |           | 102 | 1000 | 1        | 05/02/2019 21:58     | <a href="#">WG1275023</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis date / time | Batch                     |
|-----------|--------|-----------|-------|------|----------|----------------------|---------------------------|
| Iron      | 2670   |           | 15.0  | 100  | 1        | 05/12/2019 22:15     | <a href="#">WG1275858</a> |
| Manganese | 1080   |           | 0.250 | 5.00 | 1        | 05/12/2019 22:15     | <a href="#">WG1275858</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|----------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 481    |           | 31.6 | 100      | 1        | 05/02/2019 19:16     | <a href="#">WG1275218</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 99.0   |           |      | 78.0-120 |          | 05/02/2019 19:16     | <a href="#">WG1275218</a> |

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Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL  | Dilution | Analysis date / time | Batch                     |
|---------|--------|-----------|-------|------|----------|----------------------|---------------------------|
| Methane | 18000  |           | 5.74  | 13.6 | 20       | 05/09/2019 16:35     | <a href="#">WG1278760</a> |
| Ethane  | 122    |           | 0.296 | 1.29 | 1        | 05/09/2019 11:43     | <a href="#">WG1277421</a> |
| Ethene  | 93.2   |           | 0.422 | 1.27 | 1        | 05/09/2019 11:43     | <a href="#">WG1277421</a> |

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

| Analyte              | Result | Qualifier | MDL    | RDL   | Dilution | Analysis date / time | Batch                     |
|----------------------|--------|-----------|--------|-------|----------|----------------------|---------------------------|
| Acetone              | 5.66   | U J J4    | 1.05   | 25.0  | 1        | 05/03/2019 20:21     | <a href="#">WG1275813</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 05/03/2019 20:21     | <a href="#">WG1275813</a> |
| Benzene              | 0.188  | J J       | 0.0896 | 0.500 | 1        | 05/03/2019 20:21     | <a href="#">WG1275813</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 05/03/2019 20:21     | <a href="#">WG1275813</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 05/03/2019 20:21     | <a href="#">WG1275813</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 05/03/2019 20:21     | <a href="#">WG1275813</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 05/03/2019 20:21     | <a href="#">WG1275813</a> |
| Bromomethane         | U      |           | 0.157  | 2.50  | 1        | 05/03/2019 20:21     | <a href="#">WG1275813</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 05/03/2019 20:21     | <a href="#">WG1275813</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 05/03/2019 20:21     | <a href="#">WG1275813</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 05/03/2019 20:21     | <a href="#">WG1275813</a> |
| Carbon disulfide     | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 20:21     | <a href="#">WG1275813</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 05/03/2019 20:21     | <a href="#">WG1275813</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| Chloroethane                   | 4.02           | J JO      | 0.141       | 2.50        | 1        | 05/03/2019 20:21        | WG1275813 |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| Chloromethane                  | U              | UJ JO     | 0.153       | 1.25        | 1        | 05/03/2019 20:21        | WG1275813 |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 05/03/2019 20:21        | WG1275813 |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 05/03/2019 20:21        | WG1275813 |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| 1,1-Dichloroethene             | 13.0           |           | 0.188       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| cis-1,2-Dichloroethene         | 1250           |           | 1.87        | 10.0        | 20       | 05/05/2019 18:44        | WG1276343 |
| trans-1,2-Dichloroethene       | 14.1           |           | 0.152       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 05/03/2019 20:21        | WG1275813 |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 05/03/2019 20:21        | WG1275813 |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 05/03/2019 20:21        | WG1275813 |
| 2-Hexanone                     | U              |           | 0.757       | 5.00        | 1        | 05/03/2019 20:21        | WG1275813 |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 05/03/2019 20:21        | WG1275813 |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 05/03/2019 20:21        | WG1275813 |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 05/03/2019 20:21        | WG1275813 |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 05/03/2019 20:21        | WG1275813 |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 05/03/2019 20:21        | WG1275813 |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| Naphthalene                    | U              | UJ JO     | 0.174       | 2.50        | 1        | 05/03/2019 20:21        | WG1275813 |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| 1,1,1-Tetrachloroethane        | U              |           | 0.120       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| Trichloroethene                | 99.9           |           | 0.153       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 05/03/2019 20:21        | WG1275813 |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 05/03/2019 20:21        | WG1275813 |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 05/03/2019 20:21        | WG1275813 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/22/19



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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              | UJ JO     | 0.645       | 5.00        | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| Vinyl chloride            | 374            |           | 2.36        | 10.0        | 20       | 05/05/2019 18:44        | <a href="#">WG1276343</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| (S) Toluene-d8            | 99.0           |           |             | 80.0-120    |          | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| (S) Toluene-d8            | 102            |           |             | 80.0-120    |          | 05/05/2019 18:44        | <a href="#">WG1276343</a> |
| (S) 4-Bromofluorobenzene  | 105            |           |             | 77.0-126    |          | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| (S) 4-Bromofluorobenzene  | 105            |           |             | 77.0-126    |          | 05/05/2019 18:44        | <a href="#">WG1276343</a> |
| (S) 1,2-Dichloroethane-d4 | 94.3           |           |             | 70.0-130    |          | 05/03/2019 20:21        | <a href="#">WG1275813</a> |
| (S) 1,2-Dichloroethane-d4 | 98.0           |           |             | 70.0-130    |          | 05/05/2019 18:44        | <a href="#">WG1276343</a> |

- 1 Cp
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JC 5/22/19



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

| Analyte                     | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch     |
|-----------------------------|--------|-----------|--------|-------|----------|------------------|-----------|
|                             | ug/l   |           | ug/l   | ug/l  |          | date / time      |           |
| Acetone                     | 4.93   | U J4      | 1.05   | 25.0  | 1        | 05/03/2019 20:42 | WG1275813 |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 05/03/2019 20:42 | WG1275813 |
| Benzene                     | U      |           | 0.0896 | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Bromomethane                | U      |           | 0.157  | 2.50  | 1        | 05/03/2019 20:42 | WG1275813 |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Chloroethane                | U      | UJ JO     | 0.141  | 2.50  | 1        | 05/03/2019 20:42 | WG1275813 |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Chloromethane               | U      | UJ JO     | 0.153  | 1.25  | 1        | 05/03/2019 20:42 | WG1275813 |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,1-Dichloroethane          | U      |           | 0.114  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,1-Dichloroethene          | 1.26   |           | 0.188  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| cis-1,2-Dichloroethene      | 372    |           | 0.466  | 2.50  | 5        | 05/05/2019 19:04 | WG1276343 |
| trans-1,2-Dichloroethene    | 1.22   |           | 0.152  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 05/03/2019 20:42 | WG1275813 |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 05/03/2019 20:42 | WG1275813 |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Di-isopropyl ether          | U      |           | 0.0924 | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 05/03/2019 20:42 | WG1275813 |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 05/03/2019 20:42 | WG1275813 |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 05/03/2019 20:42 | WG1275813 |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 05/03/2019 20:42 | WG1275813 |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 05/03/2019 20:42 | WG1275813 |
| Methylene Chloride          | U      |           | 1.07   | 2.50  | 1        | 05/03/2019 20:42 | WG1275813 |
| 4-Methyl-2-pentanone (MIBK) | U      |           | 0.823  | 5.00  | 1        | 05/03/2019 20:42 | WG1275813 |
| Methyl tert-butyl ether     | U      |           | 0.102  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Naphthalene                 | U      | UJ JO     | 0.174  | 2.50  | 1        | 05/03/2019 20:42 | WG1275813 |
| n-Propylbenzene             | U      |           | 0.162  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| Styrene                     | U      |           | 0.117  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,1,1,2-Tetrachloroethane   | U      |           | 0.120  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |
| 1,1,2,2-Tetrachloroethane   | U      |           | 0.130  | 0.500 | 1        | 05/03/2019 20:42 | WG1275813 |

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

JC 5/22/19



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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| Tetrachloroethene              | 101            |           | 0.199       | 0.500       | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| Trichloroethene                | 166            |           | 0.153       | 0.500       | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| Vinyl acetate                  | U              | UJ JO     | 0.645       | 5.00        | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| Vinyl chloride                 | U              |           | 0.590       | 2.50        | 5        | 05/05/2019 19:04        | <a href="#">WG1276343</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| (S) Toluene-d8                 | 96.8           |           |             | 80.0-120    |          | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| (S) Toluene-d8                 | 96.5           |           |             | 80.0-120    |          | 05/05/2019 19:04        | <a href="#">WG1276343</a> |
| (S) 4-Bromofluorobenzene       | 101            |           |             | 77.0-126    |          | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| (S) 4-Bromofluorobenzene       | 101            |           |             | 77.0-126    |          | 05/05/2019 19:04        | <a href="#">WG1276343</a> |
| (S) 1,2-Dichloroethane-d4      | 98.7           |           |             | 70.0-130    |          | 05/03/2019 20:42        | <a href="#">WG1275813</a> |
| (S) 1,2-Dichloroethane-d4      | 94.8           |           |             | 70.0-130    |          | 05/05/2019 19:04        | <a href="#">WG1276343</a> |

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

Sample Narrative:

L1094387-08 WG1275813, WG1276343: Not all compounds reportable at lower dilution.

L1094387-08 WG1275813, WG1276343: Cannot be re-analyzed at lower dilution due to high levels of target analytes.

JC 5/22/19



Collected date/time: 05/01/19 00:00

L1094387

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 05/02/2019 17:41 | <a href="#">WG1275218</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.6   |           |      | 78.0-120 |          | 05/02/2019 17:41 | <a href="#">WG1275218</a> |

1 Cp

2 Tc

3 Ss

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                     | 1.22   | J J4      | 1.05   | 25.0  | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| Benzene                     | U      |           | 0.0896 | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| Bromomethane                | U      |           | 0.157  | 2.50  | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| Chloroethane                | U      | UJ JO     | 0.141  | 2.50  | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| Chloromethane               | U      | UJ JO     | 0.153  | 1.25  | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| 1,1-Dichloroethane          | U      |           | 0.114  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| 1,1-Dichloroethene          | U      |           | 0.188  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| cis-1,2-Dichloroethene      | U      |           | 0.0933 | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| trans-1,2-Dichloroethene    | U      |           | 0.152  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| Di-isopropyl ether          | U      |           | 0.0924 | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 05/03/2019 17:00 | <a href="#">WG1275813</a> |

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/22/19



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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Naphthalene                    | U              | UJ JO     | 0.174       | 2.50        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Vinyl acetate                  | U              | UJ JO     | 0.645       | 5.00        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Vinyl chloride                 | U              | UJ JO J4  | 0.118       | 0.500       | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| (S) Toluene-d8                 | 98.6           |           |             | 80.0-120    |          | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| (S) 4-Bromofluorobenzene       | 105            |           |             | 77.0-126    |          | 05/03/2019 17:00        | <a href="#">WG1275813</a> |
| (S) 1,2-Dichloroethane-d4      | 98.3           |           |             | 70.0-130    |          | 05/03/2019 17:00        | <a href="#">WG1275813</a> |

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

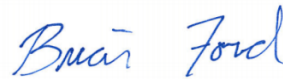
JC 5/22/19



## PES Environmental, Inc.- WA

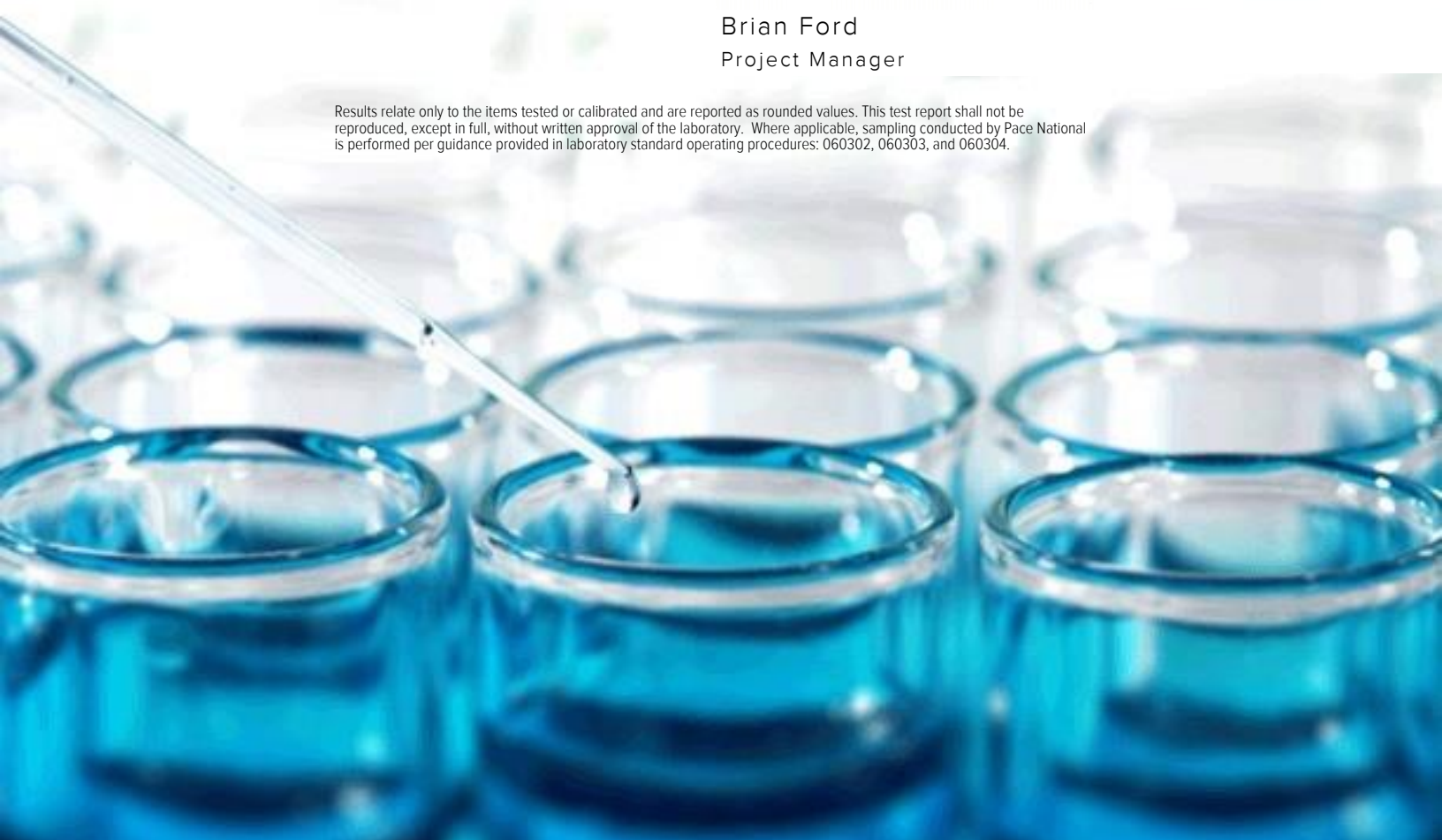
Sample Delivery Group: L1094414  
Samples Received: 05/02/2019  
Project Number: 1413.001.05,601  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

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.





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# SAMPLE SUMMARY



## MW102-050119 L1094414-01 GW

Collected by  
K. Zygas  
Collected date/time  
05/01/19 09:45  
Received date/time  
05/02/19 08:30

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011                | WG1276579 | 1        | 05/08/19 17:18        | 05/08/19 17:18     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1274986 | 1        | 05/02/19 15:46        | 05/02/19 15:46     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                      | WG1275310 | 1        | 05/03/19 13:44        | 05/03/19 13:44     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1275858 | 1        | 05/07/19 10:24        | 05/12/19 22:21     | LAT     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1275218 | 1        | 05/02/19 20:52        | 05/02/19 20:52     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1277421 | 1        | 05/09/19 13:12        | 05/09/19 13:12     | DAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1275905 | 1        | 05/04/19 01:24        | 05/04/19 01:24     | JAH     | Mt. Juliet, TN |

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## MW160-050119 L1094414-02 GW

Collected by  
K. Zygas  
Collected date/time  
05/01/19 12:20  
Received date/time  
05/02/19 08:30

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011                | WG1276579 | 1        | 05/08/19 17:25        | 05/08/19 17:25     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1274986 | 1        | 05/02/19 16:00        | 05/02/19 16:00     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                      | WG1275310 | 1        | 05/03/19 13:56        | 05/03/19 13:56     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1275858 | 1        | 05/07/19 10:24        | 05/12/19 22:26     | LAT     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1275218 | 1        | 05/02/19 21:16        | 05/02/19 21:16     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1277421 | 1        | 05/09/19 13:14        | 05/09/19 13:14     | DAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1275905 | 1        | 05/04/19 01:44        | 05/04/19 01:44     | JAH     | Mt. Juliet, TN |

## EQ-050119 L1094414-03 GW

Collected by  
K. Zygas  
Collected date/time  
05/01/19 14:29  
Received date/time  
05/02/19 08:30

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011                | WG1276579 | 1        | 05/08/19 17:51        | 05/08/19 17:51     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1274986 | 1        | 05/02/19 16:43        | 05/02/19 16:43     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                      | WG1275310 | 1        | 05/03/19 14:22        | 05/03/19 14:22     | EEM     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1275858 | 1        | 05/07/19 10:24        | 05/12/19 22:32     | LAT     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1275218 | 1        | 05/02/19 21:40        | 05/02/19 21:40     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1277421 | 1        | 05/09/19 13:17        | 05/09/19 13:17     | DAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1275905 | 1        | 05/03/19 23:23        | 05/03/19 23:23     | JAH     | Mt. Juliet, TN |

## TRIP BLANK-050119 L1094414-04 GW

Collected by  
K. Zygas  
Collected date/time  
05/01/19 00:00  
Received date/time  
05/02/19 08:30

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1275218 | 1        | 05/02/19 18:04        | 05/02/19 18:04     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1277193 | 1        | 05/07/19 14:40        | 05/07/19 14:40     | 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

### Sample Handling and Receiving

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The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

| <u>Lab Sample ID</u>        | <u>Project Sample ID</u>  | <u>Method</u> |
|-----------------------------|---------------------------|---------------|
| <a href="#">L1094414-03</a> | <a href="#">EQ-050119</a> | 9060A         |

- 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 | Qualifier | MDL  | RDL   | Dilution | Analysis date / time | Batch                     |
|------------|--------|-----------|------|-------|----------|----------------------|---------------------------|
| Alkalinity | 173000 |           | 2710 | 20000 | 1        | 05/08/2019 17:18     | <a href="#">WG1276579</a> |

Sample Narrative:

L1094414-01 WG1276579: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis date / time | Batch                     |
|----------|--------|-----------|------|------|----------|----------------------|---------------------------|
| Chloride | 5390   |           | 51.9 | 1000 | 1        | 05/02/2019 15:46     | <a href="#">WG1274986</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 05/02/2019 15:46     | <a href="#">WG1274986</a> |
| Sulfate  | 318    | J         | 77.4 | 5000 | 1        | 05/02/2019 15:46     | <a href="#">WG1274986</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL | RDL  | Dilution | Analysis date / time | Batch                     |
|----------------------------|--------|-----------|-----|------|----------|----------------------|---------------------------|
| TOC (Total Organic Carbon) | 3750   |           | 102 | 1000 | 1        | 05/03/2019 13:44     | <a href="#">WG1275310</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis date / time | Batch                     |
|-----------|--------|-----------|-------|------|----------|----------------------|---------------------------|
| Iron      | 11900  |           | 15.0  | 100  | 1        | 05/12/2019 22:21     | <a href="#">WG1275858</a> |
| Manganese | 405    |           | 0.250 | 5.00 | 1        | 05/12/2019 22:21     | <a href="#">WG1275858</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|----------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 05/02/2019 20:52     | <a href="#">WG1275218</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.7   |           |      | 78.0-120 |          | 05/02/2019 20:52     | <a href="#">WG1275218</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis date / time | Batch                     |
|---------|--------|-----------|-------|-------|----------|----------------------|---------------------------|
| Methane | 255    |           | 0.287 | 0.678 | 1        | 05/09/2019 13:12     | <a href="#">WG1277421</a> |
| Ethane  | 1.07   | J         | 0.296 | 1.29  | 1        | 05/09/2019 13:12     | <a href="#">WG1277421</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 05/09/2019 13:12     | <a href="#">WG1277421</a> |

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

| Analyte              | Result | Qualifier | MDL    | RDL   | Dilution | Analysis date / time | Batch                     |
|----------------------|--------|-----------|--------|-------|----------|----------------------|---------------------------|
| Acetone              | 1.75   | B J JO    | 1.05   | 25.0  | 1        | 05/04/2019 01:24     | <a href="#">WG1275905</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 05/04/2019 01:24     | <a href="#">WG1275905</a> |
| Benzene              | U      |           | 0.0896 | 0.500 | 1        | 05/04/2019 01:24     | <a href="#">WG1275905</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 05/04/2019 01:24     | <a href="#">WG1275905</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 05/04/2019 01:24     | <a href="#">WG1275905</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 05/04/2019 01:24     | <a href="#">WG1275905</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 05/04/2019 01:24     | <a href="#">WG1275905</a> |
| Bromomethane         | U      | JO        | 0.157  | 2.50  | 1        | 05/04/2019 01:24     | <a href="#">WG1275905</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 05/04/2019 01:24     | <a href="#">WG1275905</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 05/04/2019 01:24     | <a href="#">WG1275905</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 05/04/2019 01:24     | <a href="#">WG1275905</a> |
| Carbon disulfide     | 0.158  | J         | 0.101  | 0.500 | 1        | 05/04/2019 01:24     | <a href="#">WG1275905</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 05/04/2019 01:24     | <a href="#">WG1275905</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 05/01/19 09:45

L1094414

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

| Analyte                        | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch                     |
|--------------------------------|--------|-----------|--------|-------|----------|------------------|---------------------------|
|                                | ug/l   |           | ug/l   | ug/l  |          | date / time      |                           |
| Chlorobenzene                  | U      |           | 0.140  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| Chlorodibromomethane           | U      |           | 0.128  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| Chloroethane                   | U      | <u>JO</u> | 0.141  | 2.50  | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| Chloroform                     | U      |           | 0.0860 | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| Chloromethane                  | U      |           | 0.153  | 1.25  | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 2-Chlorotoluene                | U      |           | 0.111  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 4-Chlorotoluene                | U      |           | 0.0972 | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 1,2-Dibromo-3-Chloropropane    | U      |           | 0.325  | 2.50  | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 1,2-Dibromoethane              | U      |           | 0.193  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| Dibromomethane                 | U      |           | 0.117  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 1,2-Dichlorobenzene            | U      |           | 0.101  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 1,3-Dichlorobenzene            | U      |           | 0.130  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 1,4-Dichlorobenzene            | U      |           | 0.121  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| Dichlorodifluoromethane        | U      |           | 0.127  | 2.50  | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 1,1-Dichloroethane             | U      |           | 0.114  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 1,2-Dichloroethane             | U      |           | 0.108  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 1,1-Dichloroethene             | U      |           | 0.188  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| cis-1,2-Dichloroethene         | U      |           | 0.0933 | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| trans-1,2-Dichloroethene       | U      |           | 0.152  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 1,2-Dichloropropane            | U      |           | 0.190  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 1,1-Dichloropropene            | U      |           | 0.128  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 1,3-Dichloropropane            | U      |           | 0.147  | 1.00  | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| cis-1,3-Dichloropropene        | U      |           | 0.0976 | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| trans-1,3-Dichloropropene      | U      |           | 0.222  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| trans-1,4-Dichloro-2-butene    | U      |           | 0.257  | 5.00  | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 2,2-Dichloropropane            | U      |           | 0.0929 | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| Di-isopropyl ether             | U      |           | 0.0924 | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| Ethylbenzene                   | U      |           | 0.158  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| Hexachloro-1,3-butadiene       | U      |           | 0.157  | 1.00  | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 2-Hexanone                     | U      |           | 0.757  | 5.00  | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| n-Hexane                       | U      |           | 0.305  | 5.00  | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| Iodomethane                    | U      |           | 0.377  | 10.0  | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| Isopropylbenzene               | U      |           | 0.126  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| p-Isopropyltoluene             | U      |           | 0.138  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 2-Butanone (MEK)               | U      |           | 1.28   | 5.00  | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| Methylene Chloride             | U      |           | 1.07   | 2.50  | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 4-Methyl-2-pentanone (MIBK)    | U      |           | 0.823  | 5.00  | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| Methyl tert-butyl ether        | U      |           | 0.102  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| Naphthalene                    | U      |           | 0.174  | 2.50  | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| n-Propylbenzene                | U      |           | 0.162  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| Styrene                        | U      |           | 0.117  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 1,1,1,2-Tetrachloroethane      | U      |           | 0.120  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 1,1,2,2-Tetrachloroethane      | U      |           | 0.130  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 1,1,2-Trichlorotrifluoroethane | U      |           | 0.164  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| Tetrachloroethene              | U      |           | 0.199  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| Toluene                        | U      |           | 0.412  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 1,2,3-Trichlorobenzene         | U      |           | 0.164  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 1,2,4-Trichlorobenzene         | U      |           | 0.355  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 1,1,1-Trichloroethane          | U      |           | 0.0940 | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 1,1,2-Trichloroethane          | U      |           | 0.186  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| Trichloroethene                | U      |           | 0.153  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| Trichlorofluoromethane         | U      | <u>JO</u> | 0.130  | 2.50  | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 1,2,3-Trichloropropane         | U      |           | 0.247  | 2.50  | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 1,2,4-Trimethylbenzene         | U      |           | 0.123  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 1,2,3-Trimethylbenzene         | U      |           | 0.0739 | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |
| 1,3,5-Trimethylbenzene         | U      |           | 0.124  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|----------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate                    | U              |           | 0.645       | 5.00        | 1        | 05/04/2019 01:24        | <a href="#">WG1275905</a> |
| Vinyl chloride                   | U              | <u>JO</u> | 0.118       | 0.500       | 1        | 05/04/2019 01:24        | <a href="#">WG1275905</a> |
| Xylenes, Total                   | U              |           | 0.316       | 1.50        | 1        | 05/04/2019 01:24        | <a href="#">WG1275905</a> |
| <i>(S) Toluene-d8</i>            | 98.8           |           |             | 80.0-120    |          | 05/04/2019 01:24        | <a href="#">WG1275905</a> |
| <i>(S) 4-Bromofluorobenzene</i>  | 104            |           |             | 77.0-126    |          | 05/04/2019 01:24        | <a href="#">WG1275905</a> |
| <i>(S) 1,2-Dichloroethane-d4</i> | 96.6           |           |             | 70.0-130    |          | 05/04/2019 01:24        | <a href="#">WG1275905</a> |

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 | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 197000 |           | 2710 | 20000 | 1        | 05/08/2019 17:25 | <a href="#">WG1276579</a> |

Sample Narrative:

L1094414-02 WG1276579: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 10500  |           | 51.9 | 1000 | 1        | 05/02/2019 16:00 | <a href="#">WG1274986</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 05/02/2019 16:00 | <a href="#">WG1274986</a> |
| Sulfate  | 1260   | J         | 77.4 | 5000 | 1        | 05/02/2019 16:00 | <a href="#">WG1274986</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 3790   |           | 102  | 1000 | 1        | 05/03/2019 13:56 | <a href="#">WG1275310</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 4600   |           | 15.0  | 100  | 1        | 05/12/2019 22:26 | <a href="#">WG1275858</a> |
| Manganese | 387    |           | 0.250 | 5.00 | 1        | 05/12/2019 22:26 | <a href="#">WG1275858</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 05/02/2019 21:16 | <a href="#">WG1275218</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.5   |           |      | 78.0-120 |          | 05/02/2019 21:16 | <a href="#">WG1275218</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 1070   |           | 0.287 | 0.678 | 1        | 05/09/2019 13:14 | <a href="#">WG1277421</a> |
| Ethane  | 4.41   |           | 0.296 | 1.29  | 1        | 05/09/2019 13:14 | <a href="#">WG1277421</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 05/09/2019 13:14 | <a href="#">WG1277421</a> |

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

| Analyte              | Result | Qualifier | MDL    | RDL   | Dilution | Analysis         | Batch                     |
|----------------------|--------|-----------|--------|-------|----------|------------------|---------------------------|
|                      | ug/l   |           | ug/l   | ug/l  |          | date / time      |                           |
| Acetone              | 4.06   | B J JO    | 1.05   | 25.0  | 1        | 05/04/2019 01:44 | <a href="#">WG1275905</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 05/04/2019 01:44 | <a href="#">WG1275905</a> |
| Benzene              | U      |           | 0.0896 | 0.500 | 1        | 05/04/2019 01:44 | <a href="#">WG1275905</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 05/04/2019 01:44 | <a href="#">WG1275905</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 05/04/2019 01:44 | <a href="#">WG1275905</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 05/04/2019 01:44 | <a href="#">WG1275905</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 05/04/2019 01:44 | <a href="#">WG1275905</a> |
| Bromomethane         | U      | JO        | 0.157  | 2.50  | 1        | 05/04/2019 01:44 | <a href="#">WG1275905</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 05/04/2019 01:44 | <a href="#">WG1275905</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 05/04/2019 01:44 | <a href="#">WG1275905</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 05/04/2019 01:44 | <a href="#">WG1275905</a> |
| Carbon disulfide     | U      |           | 0.101  | 0.500 | 1        | 05/04/2019 01:44 | <a href="#">WG1275905</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 05/04/2019 01:44 | <a href="#">WG1275905</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Collected date/time: 05/01/19 12:20

L1094414

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| Chloroethane                   | U              | <u>JO</u> | 0.141       | 2.50        | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 1,1-Dichloroethene             | U              |           | 0.188       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| cis-1,2-Dichloroethene         | 2.58           |           | 0.0933      | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| trans-1,2-Dichloroethene       | U              |           | 0.152       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 2-Hexanone                     | U              |           | 0.757       | 5.00        | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| Trichloroethene                | 0.513          |           | 0.153       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|----------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate                    | U              |           | 0.645       | 5.00        | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| Vinyl chloride                   | U              | <u>JO</u> | 0.118       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| Xylenes, Total                   | U              |           | 0.316       | 1.50        | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| <i>(S) Toluene-d8</i>            | 95.9           |           |             | 80.0-120    |          | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| <i>(S) 4-Bromofluorobenzene</i>  | 104            |           |             | 77.0-126    |          | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| <i>(S) 1,2-Dichloroethane-d4</i> | 98.6           |           |             | 70.0-130    |          | 05/04/2019 01:44        | <a href="#">WG1275905</a> |

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 | Qualifier         | MDL  | RDL   | Dilution | Analysis date / time | Batch                     |
|------------|--------|-------------------|------|-------|----------|----------------------|---------------------------|
| Alkalinity | 9960   | <u>B</u> <u>J</u> | 2710 | 20000 | 1        | 05/08/2019 17:51     | <a href="#">WG1276579</a> |

## Sample Narrative:

L1094414-03 WG1276579: Endpoint pH 4.5 headspace

## Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier          | MDL  | RDL  | Dilution | Analysis date / time | Batch                     |
|----------|--------|--------------------|------|------|----------|----------------------|---------------------------|
| Chloride | 80.6   | <u>J</u> <u>P1</u> | 51.9 | 1000 | 1        | 05/02/2019 16:43     | <a href="#">WG1274986</a> |
| Nitrate  | U      |                    | 22.7 | 100  | 1        | 05/02/2019 16:43     | <a href="#">WG1274986</a> |
| Sulfate  | U      |                    | 77.4 | 5000 | 1        | 05/02/2019 16:43     | <a href="#">WG1274986</a> |

## Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier         | MDL | RDL  | Dilution | Analysis date / time | Batch                     |
|----------------------------|--------|-------------------|-----|------|----------|----------------------|---------------------------|
| TOC (Total Organic Carbon) | 299    | <u>B</u> <u>J</u> | 102 | 1000 | 1        | 05/03/2019 14:22     | <a href="#">WG1275310</a> |

## Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis date / time | Batch                     |
|-----------|--------|-----------|-------|------|----------|----------------------|---------------------------|
| Iron      | 39.8   | <u>J</u>  | 15.0  | 100  | 1        | 05/12/2019 22:32     | <a href="#">WG1275858</a> |
| Manganese | 2.10   | <u>J</u>  | 0.250 | 5.00 | 1        | 05/12/2019 22:32     | <a href="#">WG1275858</a> |

## Volatile Organic Compounds (GC) by Method NWTPHGX

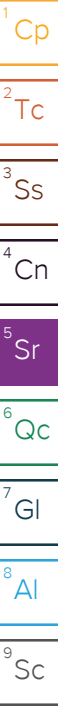
| Analyte                            | Result | Qualifier | MDL  | RDL      | Dilution | Analysis date / time | Batch                     |
|------------------------------------|--------|-----------|------|----------|----------|----------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | U      |           | 31.6 | 100      | 1        | 05/02/2019 21:40     | <a href="#">WG1275218</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 98.5   |           |      | 78.0-120 |          | 05/02/2019 21:40     | <a href="#">WG1275218</a> |

## Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis date / time | Batch                     |
|---------|--------|-----------|-------|-------|----------|----------------------|---------------------------|
| Methane | U      |           | 0.287 | 0.678 | 1        | 05/09/2019 13:17     | <a href="#">WG1277421</a> |
| Ethane  | U      |           | 0.296 | 1.29  | 1        | 05/09/2019 13:17     | <a href="#">WG1277421</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 05/09/2019 13:17     | <a href="#">WG1277421</a> |

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

| Analyte              | Result | Qualifier                   | MDL    | RDL   | Dilution | Analysis date / time | Batch                     |
|----------------------|--------|-----------------------------|--------|-------|----------|----------------------|---------------------------|
| Acetone              | 5.67   | <u>B</u> <u>J</u> <u>JO</u> | 1.05   | 25.0  | 1        | 05/03/2019 23:23     | <a href="#">WG1275905</a> |
| Acrylonitrile        | U      |                             | 0.873  | 5.00  | 1        | 05/03/2019 23:23     | <a href="#">WG1275905</a> |
| Benzene              | U      |                             | 0.0896 | 0.500 | 1        | 05/03/2019 23:23     | <a href="#">WG1275905</a> |
| Bromobenzene         | U      |                             | 0.133  | 0.500 | 1        | 05/03/2019 23:23     | <a href="#">WG1275905</a> |
| Bromodichloromethane | 0.344  | <u>J</u>                    | 0.0800 | 0.500 | 1        | 05/03/2019 23:23     | <a href="#">WG1275905</a> |
| Bromochloromethane   | U      |                             | 0.145  | 0.500 | 1        | 05/03/2019 23:23     | <a href="#">WG1275905</a> |
| Bromoform            | U      |                             | 0.186  | 0.500 | 1        | 05/03/2019 23:23     | <a href="#">WG1275905</a> |
| Bromomethane         | U      | <u>JO</u>                   | 0.157  | 2.50  | 1        | 05/03/2019 23:23     | <a href="#">WG1275905</a> |
| n-Butylbenzene       | U      |                             | 0.143  | 0.500 | 1        | 05/03/2019 23:23     | <a href="#">WG1275905</a> |
| sec-Butylbenzene     | U      |                             | 0.134  | 0.500 | 1        | 05/03/2019 23:23     | <a href="#">WG1275905</a> |
| tert-Butylbenzene    | U      |                             | 0.183  | 0.500 | 1        | 05/03/2019 23:23     | <a href="#">WG1275905</a> |
| Carbon disulfide     | U      |                             | 0.101  | 0.500 | 1        | 05/03/2019 23:23     | <a href="#">WG1275905</a> |
| Carbon tetrachloride | U      |                             | 0.159  | 0.500 | 1        | 05/03/2019 23:23     | <a href="#">WG1275905</a> |





Collected date/time: 05/01/19 14:29

L1094414

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| Chlorodibromomethane           | 0.200          | <u>L</u>  | 0.128       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| Chloroethane                   | U              | <u>JO</u> | 0.141       | 2.50        | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| Chloroform                     | 0.470          | <u>L</u>  | 0.0860      | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 1,1-Dichloroethene             | U              |           | 0.188       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| cis-1,2-Dichloroethene         | U              |           | 0.0933      | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| trans-1,2-Dichloroethene       | U              |           | 0.152       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 2-Hexanone                     | U              |           | 0.757       | 5.00        | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| Trichlorofluoromethane         | U              | <u>JO</u> | 0.130       | 2.50        | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 05/01/19 14:29

L1094414

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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| Vinyl chloride            | U              | <u>JO</u> | 0.118       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| (S) Toluene-d8            | 98.7           |           |             | 80.0-120    |          | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| (S) 4-Bromofluorobenzene  | 106            |           |             | 77.0-126    |          | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| (S) 1,2-Dichloroethane-d4 | 94.7           |           |             | 70.0-130    |          | 05/03/2019 23:23        | <a href="#">WG1275905</a> |

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 | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 05/02/2019 18:04 | <a href="#">WG1275218</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.6   |           |      | 78.0-120 |          | 05/02/2019 18:04 | <a href="#">WG1275218</a> |

- 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                     | 1.36   | J         | 1.05   | 25.0  | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| Benzene                     | U      |           | 0.0896 | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| Bromomethane                | U      | JO        | 0.157  | 2.50  | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| Chloroethane                | U      | JO        | 0.141  | 2.50  | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| Chloromethane               | U      | JO        | 0.153  | 1.25  | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| 1,1-Dichloroethane          | U      |           | 0.114  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| 1,1-Dichloroethene          | U      |           | 0.188  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| cis-1,2-Dichloroethene      | U      |           | 0.0933 | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| trans-1,2-Dichloroethene    | U      |           | 0.152  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| trans-1,4-Dichloro-2-butene | U      | JO        | 0.257  | 5.00  | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| 2,2-Dichloropropane         | U      | JO        | 0.0929 | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| Di-isopropyl ether          | U      |           | 0.0924 | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 05/07/2019 14:40 | <a href="#">WG1277193</a> |



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

| Analyte                        | Result<br>ug/l | Qualifier    | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|--------------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |              | 1.07        | 2.50        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |              | 0.823       | 5.00        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| Methyl tert-butyl ether        | U              |              | 0.102       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| Naphthalene                    | U              |              | 0.174       | 2.50        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| n-Propylbenzene                | U              |              | 0.162       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| Styrene                        | U              |              | 0.117       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| 1,1,1,2-Tetrachloroethane      | U              |              | 0.120       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| 1,1,2,2-Tetrachloroethane      | U              | <u>JO</u>    | 0.130       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |              | 0.164       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| Tetrachloroethene              | U              |              | 0.199       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| Toluene                        | U              |              | 0.412       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| 1,2,3-Trichlorobenzene         | U              |              | 0.164       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| 1,2,4-Trichlorobenzene         | U              |              | 0.355       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| 1,1,1-Trichloroethane          | U              |              | 0.0940      | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| 1,1,2-Trichloroethane          | U              |              | 0.186       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| Trichloroethene                | U              |              | 0.153       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| Trichlorofluoromethane         | U              | <u>J4</u>    | 0.130       | 2.50        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| 1,2,3-Trichloropropane         | U              | <u>JO</u>    | 0.247       | 2.50        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| 1,2,4-Trimethylbenzene         | U              |              | 0.123       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| 1,2,3-Trimethylbenzene         | U              |              | 0.0739      | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| 1,3,5-Trimethylbenzene         | U              |              | 0.124       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| Vinyl acetate                  | U              |              | 0.645       | 5.00        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| Vinyl chloride                 | U              | <u>JO J4</u> | 0.118       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| Xylenes, Total                 | U              |              | 0.316       | 1.50        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| (S) Toluene-d8                 | 97.5           |              |             | 80.0-120    |          | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| (S) 4-Bromofluorobenzene       | 111            |              |             | 77.0-126    |          | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| (S) 1,2-Dichloroethane-d4      | 86.1           |              |             | 70.0-130    |          | 05/07/2019 14:40        | <a href="#">WG1277193</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3409444-1 05/08/19 15:02

| Analyte    | MB Result | MB Qualifier | MB MDL | MB RDL |
|------------|-----------|--------------|--------|--------|
| Alkalinity | 3670      | ↓            | 2710   | 20000  |

Sample Narrative:

BLANK: Endpoint pH 4.5

L1094407-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1094407-03 05/08/19 15:09 • (DUP) R3409444-2 05/08/19 15:15

| Analyte    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------|-----------------|------------|----------|---------|---------------|----------------|
| Alkalinity | 371000          | 370000     | 1        | 0.178   |               | 20             |

Sample Narrative:

OS: Endpoint pH 4.5 headspace  
DUP: Endpoint pH 4.5

L1094422-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1094422-01 05/08/19 17:59 • (DUP) R3409444-5 05/08/19 18:06

| Analyte    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------|-----------------|------------|----------|---------|---------------|----------------|
| Alkalinity | 61000           | 61000      | 1        | 0.0689  |               | 20             |

Sample Narrative:

OS: Endpoint pH 4.5 headspace  
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3409444-3 05/08/19 16:13

| Analyte    | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|------------|--------------|------------|----------|-------------|---------------|
| Alkalinity | 100000       | 102000     | 102      | 85.0-115    |               |

Sample Narrative:

LCS: Endpoint pH 4.5

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Method Blank (MB)

(MB) R3407729-1 05/02/19 09:54

| 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   |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1094387-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1094387-06 05/02/19 11:27 • (DUP) R3407729-3 05/02/19 11:41

| Analyte  | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
|          | ug/l            | ug/l       |          | %       |               | %              |
| Chloride | 25500           | 25600      | 1        | 0.444   |               | 15             |
| Nitrate  | U               | 0.000      | 1        | 0.000   |               | 15             |
| Sulfate  | 12200           | 12200      | 1        | 0.406   |               | 15             |

L1094414-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1094414-03 05/02/19 16:43 • (DUP) R3407729-6 05/02/19 16:58

| Analyte  | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
|          | ug/l            | ug/l       |          | %       |               | %              |
| Chloride | 80.6            | 0.000      | 1        | 200     | P1            | 15             |
| Nitrate  | U               | 0.000      | 1        | 0.000   |               | 15             |
| Sulfate  | U               | 0.000      | 1        | 0.000   |               | 15             |

Laboratory Control Sample (LCS)

(LCS) R3407729-2 05/02/19 10:08

| Analyte  | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------|--------------|------------|----------|-------------|---------------|
|          | ug/l         | ug/l       | %        | %           |               |
| Chloride | 40000        | 40100      | 100      | 80.0-120    |               |
| Nitrate  | 8000         | 8050       | 101      | 80.0-120    |               |
| Sulfate  | 40000        | 40500      | 101      | 80.0-120    |               |



L1094387-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1094387-06 05/02/19 11:27 • (MS) R3407729-4 05/02/19 11:55 • (MSD) R3407729-5 05/02/19 12:09

| Analyte  | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MSD Result<br>ug/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Chloride | 50000                | 25500                   | 73800             | 73800              | 96.5         | 96.7          | 1        | 80.0-120         |              |               | 0.0809   | 15              |
| Nitrate  | 5000                 | U                       | 4620              | 4630               | 92.4         | 92.6          | 1        | 80.0-120         |              |               | 0.195    | 15              |
| Sulfate  | 50000                | 12200                   | 60300             | 60300              | 96.3         | 96.3          | 1        | 80.0-120         |              |               | 0.0128   | 15              |

L1094414-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1094414-03 05/02/19 16:43 • (MS) R3407729-7 05/02/19 17:12

| Analyte  | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MS Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier |
|----------|----------------------|-------------------------|-------------------|--------------|----------|------------------|--------------|
| Chloride | 50000                | 80.6                    | 49600             | 99.0         | 1        | 80.0-120         |              |
| Nitrate  | 5000                 | U                       | 4830              | 96.5         | 1        | 80.0-120         |              |
| Sulfate  | 50000                | U                       | 48800             | 97.5         | 1        | 80.0-120         |              |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3408346-1 05/03/19 11:52

| Analyte                    | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------------------|-----------|--------------|--------|--------|
| TOC (Total Organic Carbon) | 205       | ↓            | 102    | 1000   |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1094414-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1094414-02 05/03/19 13:56 • (DUP) R3408346-3 05/03/19 14:09

| Analyte                    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------------------------|-----------------|------------|----------|---------|---------------|----------------|
| TOC (Total Organic Carbon) | 3790            | 3820       | 1        | 0.762   |               | 20             |

L1094708-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1094708-01 05/03/19 17:35 • (DUP) R3408346-6 05/03/19 17:52

| Analyte                    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------------------------|-----------------|------------|----------|---------|---------------|----------------|
| TOC (Total Organic Carbon) | 29300           | 29500      | 1        | 0.749   |               | 20             |

Laboratory Control Sample (LCS)

(LCS) R3408346-2 05/03/19 12:28

| Analyte                    | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------------------------|--------------|------------|----------|-------------|---------------|
| TOC (Total Organic Carbon) | 75000        | 78200      | 104      | 85.0-115    |               |

L1094646-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1094646-16 05/03/19 16:43 • (MS) R3408346-4 05/03/19 17:00 • (MSD) R3408346-5 05/03/19 17:18

| Analyte                    | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD   | RPD Limits |
|----------------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| TOC (Total Organic Carbon) | 50000        | 10500           | 63500     | 63300      | 106     | 106      | 1        | 80.0-120    |              |               | 0.284 | 20         |

L1094846-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1094846-01 05/03/19 19:10 • (MS) R3408346-7 05/03/19 19:31 • (MSD) R3408346-8 05/03/19 19:48

| Analyte                    | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD   | RPD Limits |
|----------------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| TOC (Total Organic Carbon) | 50000        | 7290            | 59600     | 59700      | 105     | 105      | 1        | 80.0-120    |              |               | 0.134 | 20         |



Method Blank (MB)

(MB) R3410561-1 05/12/19 20:24

| Analyte   | MB Result | MB Qualifier | MB MDL | MB RDL |
|-----------|-----------|--------------|--------|--------|
| Iron      | U         |              | 15.0   | 100    |
| Manganese | U         |              | 0.250  | 5.00   |

1 Cp

2 Tc

3 Ss

4 Cn

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

(LCS) R3410561-2 05/12/19 20:30 • (LCSD) R3410561-3 05/12/19 20:35

| Analyte   | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |
|-----------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| Iron      | 500          | 515        | 470         | 103      | 94.0      | 80.0-120    |               |                | 9.08 | 20         |
| Manganese | 50.0         | 49.3       | 47.8        | 98.5     | 95.6      | 80.0-120    |               |                | 3.05 | 20         |

5 Sr

6 Qc

L1094065-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1094065-01 05/12/19 20:40 • (MS) R3410561-5 05/12/19 20:51 • (MSD) R3410561-6 05/12/19 20:56

| Analyte   | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD  | RPD Limits |
|-----------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Iron      | 500          | 200000          | 189000    | 185000     | 0.000   | 0.000    | 1        | 75.0-125    | √            | √             | 2.08 | 20         |
| Manganese | 50.0         | 5360            | 5190      | 4990       | 0.000   | 0.000    | 1        | 75.0-125    | √            | √             | 3.94 | 20         |

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3407657-3 05/02/19 14:16

| Analyte                            | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| Gasoline Range Organics-NWTPH      | U                 |              | 31.6           | 100            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 98.4              |              |                | 78.0-120       |

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

(LCS) R3407657-1 05/02/19 13:04 • (LCSD) R3407657-2 05/02/19 13:28

| Analyte                            | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Gasoline Range Organics-NWTPH      | 5500                 | 5280               | 5110                | 95.9          | 92.9           | 70.0-124         |               |                | 3.26     | 20              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                    |                     | 104           | 104            | 78.0-120         |               |                |          |                 |

L1094387-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1094387-05 05/02/19 18:28 • (MS) R3407657-4 05/02/19 23:14 • (MSD) R3407657-5 05/02/19 23:38

| Analyte                            | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MSD Result<br>ug/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Gasoline Range Organics-NWTPH      | 5500                 | U                       | 5760              | 5590               | 105          | 102           | 1        | 10.0-155         |              |               | 2.92     | 21              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                         |                   |                    | 107          | 107           |          | 78.0-120         |              |               |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3409706-1 05/09/19 11:19

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------|-----------|--------------|--------|--------|
|         | ug/l      |              | ug/l   | ug/l   |
| Methane | U         |              | 0.287  | 0.678  |
| Ethane  | U         |              | 0.296  | 1.29   |
| Ethene  | U         |              | 0.422  | 1.27   |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1094039-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1094039-01 05/09/19 11:34 • (DUP) R3409706-2 05/09/19 11:36

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
|         | ug/l            | ug/l       |          | %       |               | %              |
| Methane | 221             | 79.2       | 1        | 94.5    |               | 20             |
| Ethane  | ND              | 0.000      | 1        | 0.000   |               | 20             |
| Ethene  | ND              | 0.000      | 1        | 0.000   |               | 20             |

L1094407-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1094407-05 05/09/19 12:59 • (DUP) R3409706-3 05/09/19 13:02

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
|         | ug/l            | ug/l       |          | %       |               | %              |
| Methane | 519             | 536        | 1        | 3.25    |               | 20             |
| Ethane  | ND              | 0.000      | 1        | 0.000   |               | 20             |
| Ethene  | ND              | 0.000      | 1        | 0.000   |               | 20             |

L1095146-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1095146-01 05/09/19 13:38 • (DUP) R3409706-4 05/09/19 13:48

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
|         | ug/l            | ug/l       |          | %       |               | %              |
| Methane | 4330            | 4280       | 1        | 1.22    |               | 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) R3409706-5 05/09/19 13:51 • (LCSD) R3409706-6 05/09/19 13:57

| Analyte | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD<br>% | RPD Limits<br>% |
|---------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Methane | 67.8                 | 78.0               | 73.3                | 115           | 108            | 85.0-115         |                      |                       | 6.21     | 20              |
| Ethane  | 129                  | 120                | 115                 | 93.0          | 89.2           | 85.0-115         |                      |                       | 4.26     | 20              |
| Ethene  | 127                  | 119                | 114                 | 93.9          | 89.9           | 85.0-115         |                      |                       | 4.37     | 20              |

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



Method Blank (MB)

(MB) R3408790-2 05/03/19 22:42

| Analyte                     | MB Result | MB Qualifier | MB MDL | MB RDL |
|-----------------------------|-----------|--------------|--------|--------|
|                             | ug/l      |              | ug/l   | ug/l   |
| Acetone                     | 1.29      | 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   |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Method Blank (MB)

(MB) R3408790-2 05/03/19 22:42

| Analyte                        | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>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       | 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          |
| Vinyl acetate                  | U                 |              | 0.645          | 5.00           |
| 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          |
| Toluene                        | U                 |              | 0.412          | 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                 | 105               |              |                | 80.0-120       |
| (S) 4-Bromofluorobenzene       | 103               |              |                | 77.0-126       |
| (S) 1,2-Dichloroethane-d4      | 101               |              |                | 70.0-130       |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3408790-1 05/03/19 21:42

| Analyte                     | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> |
|-----------------------------|----------------------|--------------------|---------------|------------------|----------------------|
| Acetone                     | 125                  | 189                | 152           | 19.0-160         |                      |
| Acrylonitrile               | 125                  | 151                | 120           | 55.0-149         |                      |
| Bromobenzene                | 25.0                 | 21.5               | 86.0          | 73.0-121         |                      |
| Bromodichloromethane        | 25.0                 | 22.8               | 91.4          | 75.0-120         |                      |
| Bromochloromethane          | 25.0                 | 24.1               | 96.6          | 76.0-122         |                      |
| Bromoform                   | 25.0                 | 28.0               | 112           | 68.0-132         |                      |
| Bromomethane                | 25.0                 | 16.9               | 67.6          | 10.0-160         |                      |
| trans-1,4-Dichloro-2-butene | 25.0                 | 21.1               | 84.2          | 33.0-144         |                      |
| n-Butylbenzene              | 25.0                 | 20.2               | 80.7          | 73.0-125         |                      |
| sec-Butylbenzene            | 25.0                 | 21.2               | 85.0          | 75.0-125         |                      |
| tert-Butylbenzene           | 25.0                 | 22.1               | 88.6          | 76.0-124         |                      |
| Carbon disulfide            | 25.0                 | 26.4               | 106           | 61.0-128         |                      |
| Carbon tetrachloride        | 25.0                 | 25.8               | 103           | 68.0-126         |                      |
| Chlorobenzene               | 25.0                 | 23.6               | 94.5          | 80.0-121         |                      |
| n-Hexane                    | 25.0                 | 25.7               | 103           | 57.0-133         |                      |
| Chlorodibromomethane        | 25.0                 | 24.2               | 96.7          | 77.0-125         |                      |
| Iodomethane                 | 125                  | 137                | 109           | 33.0-147         |                      |
| Chloroethane                | 25.0                 | 14.6               | 58.5          | 47.0-150         |                      |
| Chloroform                  | 25.0                 | 22.1               | 88.2          | 73.0-120         |                      |
| Chloromethane               | 25.0                 | 23.1               | 92.4          | 41.0-142         |                      |
| 2-Chlorotoluene             | 25.0                 | 21.2               | 84.9          | 76.0-123         |                      |
| Benzene                     | 25.0                 | 25.5               | 102           | 70.0-123         |                      |
| 4-Chlorotoluene             | 25.0                 | 21.6               | 86.5          | 75.0-122         |                      |
| 1,2-Dibromo-3-Chloropropane | 25.0                 | 25.2               | 101           | 58.0-134         |                      |
| 1,2-Dibromoethane           | 25.0                 | 23.3               | 93.4          | 80.0-122         |                      |
| Dibromomethane              | 25.0                 | 23.0               | 91.8          | 80.0-120         |                      |
| 1,2-Dichlorobenzene         | 25.0                 | 22.8               | 91.3          | 79.0-121         |                      |
| 1,3-Dichlorobenzene         | 25.0                 | 22.2               | 88.6          | 79.0-120         |                      |
| 1,4-Dichlorobenzene         | 25.0                 | 21.6               | 86.6          | 79.0-120         |                      |
| Dichlorodifluoromethane     | 25.0                 | 23.3               | 93.1          | 51.0-149         |                      |
| 1,1-Dichloroethane          | 25.0                 | 23.8               | 95.3          | 70.0-126         |                      |
| 1,2-Dichloroethane          | 25.0                 | 21.6               | 86.3          | 70.0-128         |                      |
| 1,1-Dichloroethene          | 25.0                 | 25.3               | 101           | 71.0-124         |                      |
| cis-1,2-Dichloroethene      | 25.0                 | 24.1               | 96.3          | 73.0-120         |                      |
| trans-1,2-Dichloroethene    | 25.0                 | 24.2               | 96.7          | 73.0-120         |                      |
| 1,2-Dichloropropane         | 25.0                 | 25.9               | 103           | 77.0-125         |                      |
| 1,1-Dichloropropene         | 25.0                 | 24.0               | 95.9          | 74.0-126         |                      |
| 1,3-Dichloropropane         | 25.0                 | 23.7               | 94.9          | 80.0-120         |                      |
| cis-1,3-Dichloropropene     | 25.0                 | 23.8               | 95.1          | 80.0-123         |                      |
| Vinyl acetate               | 125                  | 119                | 94.9          | 11.0-160         |                      |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3408790-1 05/03/19 21:42

| Analyte                          | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> |
|----------------------------------|----------------------|--------------------|---------------|------------------|----------------------|
| trans-1,3-Dichloropropene        | 25.0                 | 22.3               | 89.3          | 78.0-124         |                      |
| 2,2-Dichloropropane              | 25.0                 | 30.8               | 123           | 58.0-130         |                      |
| Di-isopropyl ether               | 25.0                 | 26.4               | 105           | 58.0-138         |                      |
| Hexachloro-1,3-butadiene         | 25.0                 | 28.4               | 114           | 54.0-138         |                      |
| 2-Hexanone                       | 125                  | 136                | 109           | 67.0-149         |                      |
| Isopropylbenzene                 | 25.0                 | 24.9               | 99.6          | 76.0-127         |                      |
| p-Isopropyltoluene               | 25.0                 | 21.9               | 87.6          | 76.0-125         |                      |
| 2-Butanone (MEK)                 | 125                  | 153                | 122           | 44.0-160         |                      |
| Methylene Chloride               | 25.0                 | 25.3               | 101           | 67.0-120         |                      |
| 4-Methyl-2-pentanone (MIBK)      | 125                  | 133                | 106           | 68.0-142         |                      |
| Methyl tert-butyl ether          | 25.0                 | 24.2               | 96.8          | 68.0-125         |                      |
| Naphthalene                      | 25.0                 | 21.8               | 87.3          | 54.0-135         |                      |
| Ethylbenzene                     | 25.0                 | 24.1               | 96.4          | 79.0-123         |                      |
| n-Propylbenzene                  | 25.0                 | 20.5               | 82.2          | 77.0-124         |                      |
| Styrene                          | 25.0                 | 26.6               | 106           | 73.0-130         |                      |
| 1,1,1,2-Tetrachloroethane        | 25.0                 | 24.3               | 97.0          | 75.0-125         |                      |
| 1,1,2,2-Tetrachloroethane        | 25.0                 | 21.0               | 84.0          | 65.0-130         |                      |
| Tetrachloroethene                | 25.0                 | 25.3               | 101           | 72.0-132         |                      |
| 1,1,2-Trichlorotrifluoroethane   | 25.0                 | 24.2               | 96.7          | 69.0-132         |                      |
| 1,2,3-Trichlorobenzene           | 25.0                 | 23.9               | 95.8          | 50.0-138         |                      |
| 1,2,4-Trichlorobenzene           | 25.0                 | 23.9               | 95.4          | 57.0-137         |                      |
| 1,1,1-Trichloroethane            | 25.0                 | 24.1               | 96.5          | 73.0-124         |                      |
| 1,1,2-Trichloroethane            | 25.0                 | 22.5               | 89.9          | 80.0-120         |                      |
| Trichloroethene                  | 25.0                 | 25.5               | 102           | 78.0-124         |                      |
| Trichlorofluoromethane           | 25.0                 | 15.9               | 63.7          | 59.0-147         |                      |
| 1,2,3-Trichloropropane           | 25.0                 | 20.2               | 80.7          | 73.0-130         |                      |
| 1,2,3-Trimethylbenzene           | 25.0                 | 20.8               | 83.4          | 77.0-120         |                      |
| 1,2,4-Trimethylbenzene           | 25.0                 | 21.0               | 83.9          | 76.0-121         |                      |
| 1,3,5-Trimethylbenzene           | 25.0                 | 21.5               | 85.9          | 76.0-122         |                      |
| Vinyl chloride                   | 25.0                 | 17.0               | 68.0          | 67.0-131         |                      |
| Toluene                          | 25.0                 | 25.0               | 100           | 79.0-120         |                      |
| Xylenes, Total                   | 75.0                 | 73.4               | 97.9          | 79.0-123         |                      |
| <i>(S) Toluene-d8</i>            |                      |                    | 99.4          | 80.0-120         |                      |
| <i>(S) 4-Bromofluorobenzene</i>  |                      |                    | 109           | 77.0-126         |                      |
| <i>(S) 1,2-Dichloroethane-d4</i> |                      |                    | 94.0          | 70.0-130         |                      |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3409270-2 05/07/19 12:38

| Analyte                     | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>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-1,4-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          |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3409270-2 05/07/19 12:38

| Analyte                        | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|--------------------------------|-------------------|--------------|----------------|----------------|
| Iodomethane                    | U                 |              | 0.377          | 10.0           |
| Di-isopropyl ether             | U                 |              | 0.0924         | 0.500          |
| Ethylbenzene                   | U                 |              | 0.158          | 0.500          |
| 2-Hexanone                     | U                 |              | 0.757          | 5.00           |
| 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           |
| 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                 | 97.7              |              |                | 80.0-120       |
| (S) 4-Bromofluorobenzene       | 112               |              |                | 77.0-126       |
| (S) 1,2-Dichloroethane-d4      | 86.7              |              |                | 70.0-130       |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3409270-1 05/07/19 09:38

| Analyte                     | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> |
|-----------------------------|----------------------|--------------------|---------------|------------------|----------------------|
| Bromochloromethane          | 25.0                 | 24.3               | 97.2          | 76.0-122         |                      |
| trans-1,4-Dichloro-2-butene | 25.0                 | 18.4               | 73.6          | 33.0-144         |                      |
| Carbon disulfide            | 25.0                 | 27.6               | 111           | 61.0-128         |                      |
| n-Hexane                    | 25.0                 | 28.5               | 114           | 57.0-133         |                      |
| Iodomethane                 | 125                  | 136                | 109           | 33.0-147         |                      |
| Acetone                     | 125                  | 126                | 101           | 19.0-160         |                      |
| Acrylonitrile               | 125                  | 135                | 108           | 55.0-149         |                      |
| Benzene                     | 25.0                 | 25.9               | 104           | 70.0-123         |                      |
| Bromobenzene                | 25.0                 | 21.6               | 86.6          | 73.0-121         |                      |
| Bromodichloromethane        | 25.0                 | 22.5               | 90.1          | 75.0-120         |                      |
| Bromoform                   | 25.0                 | 27.8               | 111           | 68.0-132         |                      |
| Bromomethane                | 25.0                 | 16.1               | 64.2          | 10.0-160         |                      |
| n-Butylbenzene              | 25.0                 | 20.5               | 82.0          | 73.0-125         |                      |
| sec-Butylbenzene            | 25.0                 | 21.6               | 86.5          | 75.0-125         |                      |
| tert-Butylbenzene           | 25.0                 | 22.6               | 90.3          | 76.0-124         |                      |
| Carbon tetrachloride        | 25.0                 | 24.1               | 96.3          | 68.0-126         |                      |
| Chlorobenzene               | 25.0                 | 24.2               | 96.8          | 80.0-121         |                      |
| Chlorodibromomethane        | 25.0                 | 24.4               | 97.6          | 77.0-125         |                      |
| Chloroethane                | 25.0                 | 13.3               | 53.3          | 47.0-150         |                      |
| Chloroform                  | 25.0                 | 22.1               | 88.3          | 73.0-120         |                      |
| Chloromethane               | 25.0                 | 19.9               | 79.4          | 41.0-142         |                      |
| 2-Chlorotoluene             | 25.0                 | 21.5               | 86.0          | 76.0-123         |                      |
| Vinyl acetate               | 125                  | 118                | 94.6          | 11.0-160         |                      |
| 4-Chlorotoluene             | 25.0                 | 21.9               | 87.6          | 75.0-122         |                      |
| 1,2-Dibromo-3-Chloropropane | 25.0                 | 23.4               | 93.7          | 58.0-134         |                      |
| 1,2-Dibromoethane           | 25.0                 | 23.6               | 94.5          | 80.0-122         |                      |
| Dibromomethane              | 25.0                 | 22.9               | 91.5          | 80.0-120         |                      |
| 1,2-Dichlorobenzene         | 25.0                 | 22.5               | 90.0          | 79.0-121         |                      |
| 1,3-Dichlorobenzene         | 25.0                 | 22.3               | 89.3          | 79.0-120         |                      |
| 1,4-Dichlorobenzene         | 25.0                 | 21.7               | 86.7          | 79.0-120         |                      |
| 2-Hexanone                  | 125                  | 133                | 106           | 67.0-149         |                      |
| Dichlorodifluoromethane     | 25.0                 | 23.5               | 94.0          | 51.0-149         |                      |
| 1,1-Dichloroethane          | 25.0                 | 23.5               | 94.0          | 70.0-126         |                      |
| 1,2-Dichloroethane          | 25.0                 | 20.2               | 80.9          | 70.0-128         |                      |
| 1,1-Dichloroethene          | 25.0                 | 24.7               | 98.7          | 71.0-124         |                      |
| cis-1,2-Dichloroethene      | 25.0                 | 24.2               | 96.9          | 73.0-120         |                      |
| trans-1,2-Dichloroethene    | 25.0                 | 24.7               | 99.0          | 73.0-120         |                      |
| 1,2-Dichloropropane         | 25.0                 | 25.5               | 102           | 77.0-125         |                      |
| 1,1-Dichloropropene         | 25.0                 | 24.4               | 97.5          | 74.0-126         |                      |
| 1,3-Dichloropropane         | 25.0                 | 23.7               | 94.7          | 80.0-120         |                      |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3409270-1 05/07/19 09:38

| Analyte                        | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> |
|--------------------------------|----------------------|--------------------|---------------|------------------|----------------------|
| cis-1,3-Dichloropropene        | 25.0                 | 24.1               | 96.4          | 80.0-123         |                      |
| trans-1,3-Dichloropropene      | 25.0                 | 22.6               | 90.5          | 78.0-124         |                      |
| 2,2-Dichloropropane            | 25.0                 | 30.6               | 123           | 58.0-130         |                      |
| Di-isopropyl ether             | 25.0                 | 25.8               | 103           | 58.0-138         |                      |
| Ethylbenzene                   | 25.0                 | 24.8               | 99.2          | 79.0-123         |                      |
| Hexachloro-1,3-butadiene       | 25.0                 | 28.1               | 112           | 54.0-138         |                      |
| Isopropylbenzene               | 25.0                 | 25.5               | 102           | 76.0-127         |                      |
| p-Isopropyltoluene             | 25.0                 | 21.8               | 87.1          | 76.0-125         |                      |
| 2-Butanone (MEK)               | 125                  | 138                | 111           | 44.0-160         |                      |
| Methylene Chloride             | 25.0                 | 24.5               | 97.9          | 67.0-120         |                      |
| 4-Methyl-2-pentanone (MIBK)    | 125                  | 124                | 99.6          | 68.0-142         |                      |
| Methyl tert-butyl ether        | 25.0                 | 23.4               | 93.4          | 68.0-125         |                      |
| Naphthalene                    | 25.0                 | 20.4               | 81.5          | 54.0-135         |                      |
| n-Propylbenzene                | 25.0                 | 21.2               | 84.8          | 77.0-124         |                      |
| Styrene                        | 25.0                 | 27.7               | 111           | 73.0-130         |                      |
| 1,1,1,2-Tetrachloroethane      | 25.0                 | 24.0               | 95.8          | 75.0-125         |                      |
| 1,1,2,2-Tetrachloroethane      | 25.0                 | 20.6               | 82.3          | 65.0-130         |                      |
| Tetrachloroethene              | 25.0                 | 27.0               | 108           | 72.0-132         |                      |
| Toluene                        | 25.0                 | 26.2               | 105           | 79.0-120         |                      |
| 1,1,2-Trichlorotrifluoroethane | 25.0                 | 24.1               | 96.2          | 69.0-132         |                      |
| 1,2,3-Trichlorobenzene         | 25.0                 | 20.9               | 83.7          | 50.0-138         |                      |
| 1,2,4-Trichlorobenzene         | 25.0                 | 22.3               | 89.0          | 57.0-137         |                      |
| 1,1,1-Trichloroethane          | 25.0                 | 23.7               | 94.6          | 73.0-124         |                      |
| 1,1,2-Trichloroethane          | 25.0                 | 23.0               | 91.9          | 80.0-120         |                      |
| Trichloroethene                | 25.0                 | 26.1               | 105           | 78.0-124         |                      |
| Trichlorofluoromethane         | 25.0                 | 14.7               | 58.7          | 59.0-147         | J4                   |
| 1,2,3-Trichloropropane         | 25.0                 | 19.2               | 76.9          | 73.0-130         |                      |
| 1,2,3-Trimethylbenzene         | 25.0                 | 20.6               | 82.3          | 77.0-120         |                      |
| 1,2,4-Trimethylbenzene         | 25.0                 | 21.2               | 84.9          | 76.0-121         |                      |
| 1,3,5-Trimethylbenzene         | 25.0                 | 21.6               | 86.4          | 76.0-122         |                      |
| Vinyl chloride                 | 25.0                 | 14.3               | 57.3          | 67.0-131         | J4                   |
| Xylenes, Total                 | 75.0                 | 76.0               | 101           | 79.0-123         |                      |
| (S) Toluene-d8                 |                      |                    | 101           | 80.0-120         |                      |
| (S) 4-Bromofluorobenzene       |                      |                    | 113           | 77.0-126         |                      |
| (S) 1,2-Dichloroethane-d4      |                      |                    | 83.8          | 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.  |

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

| 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.  |
| P1        | RPD value not applicable for sample concentrations less than 5 times the reporting limit.  |
| 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 <sup>1</sup>     | n/a              |
| Colorado                | TN00003     | New York                    | 11742            |
| Connecticut             | PH-0197     | North Carolina              | Env375           |
| Florida                 | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                 | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>    | 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 <sup>1,6</sup> | 90010       | South Carolina              | 84004            |
| Kentucky <sup>2</sup>   | 16          | South Dakota                | n/a              |
| Louisiana               | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana <sup>1</sup>  | LA180010    | Texas                       | T104704245-18-15 |
| Maine                   | TN0002      | Texas <sup>5</sup>          | 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             |

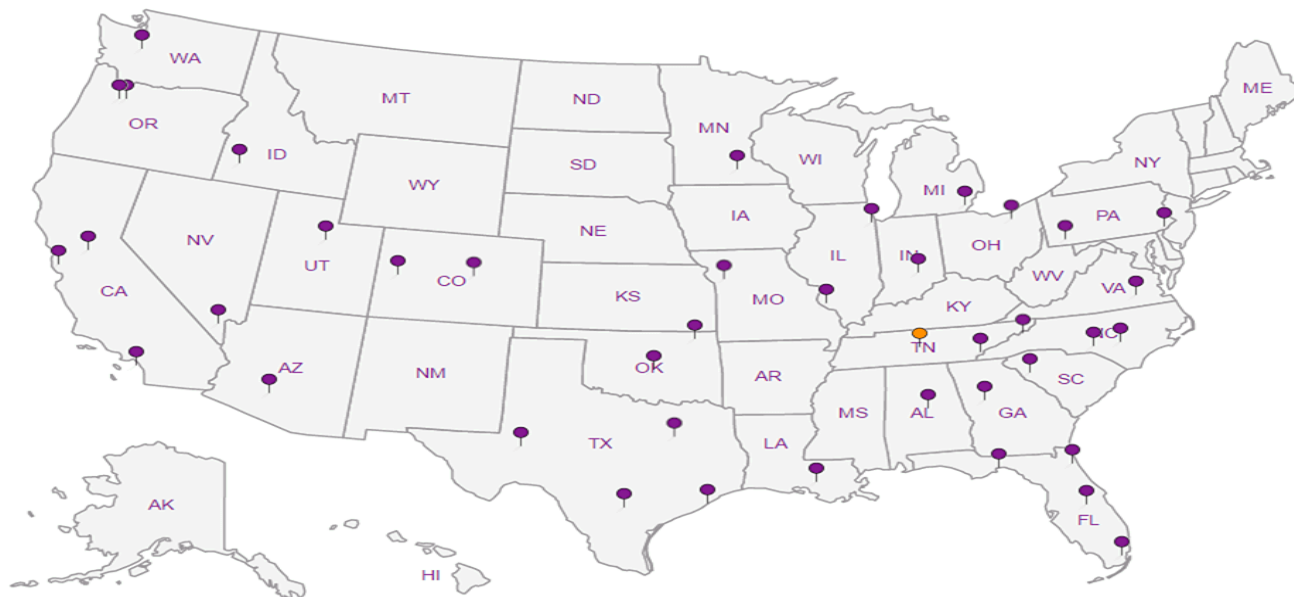
## Third Party Federal Accreditations

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

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**PES Environmental, Inc. -WA**  
**1215 4th Avenue STE 1350**  
**Seattle, WA 98161**

Billing Information:  
**Attn: Accounts Payable**  
**1215 4th Ave STE 1350**  
**Seattle, WA 98161**

Report to:  
**Brian O'Neal/Bill Haldeman**

Email To: **KVIK@PESENV.COM**  
**BOneal@pesenv.com** **KSPANGSTEAD@PESENV.COM** **BHALDEMAN@PESENV.COM**

Project  
**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):  
**K. Zygas**

Site/Facility ID #  
**American Linen**

P.O. #

Collected by (signature):

**Rush?** (Lab MUST Be Notified)

Quote #

Immediately Packed on Ice: N  Y  X

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

Date Results Needed

*Standard TAT.*

| Sample ID         | Comp/Grab | Matrix * | Depth | Date   | Time | No. of Cntrs |
|-------------------|-----------|----------|-------|--------|------|--------------|
| MW102-050119      | Grab      | GW       | 120   | 5/1/19 | 0945 | 12           |
| MW160-050119      | Grab      | GW       | 125   | ↓      | 1220 | 12           |
| EQ-050119         | Grab      | GW       | —     |        | 1429 | 12           |
| Trip Blank-050119 | Grab      | GW       | —     |        | —    | 1            |
|                   | Grab      | GW       |       |        |      |              |
|                   | Grab      | GW       |       |        |      |              |
|                   | Grab      | GW       |       |        |      |              |
|                   | Grab      | GW       |       |        |      |              |
|                   | Grab      | GW       |       |        |      |              |
|                   | Grab      | GW       |       |        |      |              |

| Analysis / Container / Preservative | Pres Chk |
|-------------------------------------|----------|
| *NO3,SO4,Cl* 125mlHDPE-NoPres       |          |
| Alkalinity 125mlHDPE-NoPres         |          |
| EEM (RSK175LL) 40mlAmb-HCl          |          |
| TOC 250mlAmb-HCl                    |          |
| Total Fe Mn 6020 250mlHDPE-HNO3     |          |
| VOC (8260)                          |          |
| GRO (NWTPH-Gx)                      |          |

Chain of Custody Page 1 of 1

**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 # **11094414**

Ta **B083**

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

| Remarks | Sample # (lab only) |
|---------|---------------------|
|         | -01                 |
|         | -02                 |
|         | -03                 |
|         | -04                 |

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

Remarks:  
**Tier 2 lab QA/QC**

Samples returned via:  
 UPS  FedEx  Courier

Tracking # **4269 9216 3070**

Relinquished by: (Signature)   
 Date: **05-01-19** Time: **1600**

Relinquished by: (Signature)  
 Date: Time:

Relinquished by: (Signature)  
 Date: Time:

Received by: (Signature)  
 Trip Blank Received:  Yes  No  
 HCL/MeOH  
 TBR

Received by: (Signature)

Received for lab by: (Signature)   
 Date: **5/2/19** Time: **0830**

**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:  OK  NCF



**Troy Dunlap**



|                          |                          |                     |                                  |
|--------------------------|--------------------------|---------------------|----------------------------------|
| <b>Login #:</b> L1094414 | <b>Client:</b> PESENVSWA | <b>Date:</b> 5/2/19 | <b>Evaluated by:</b> Troy Dunlap |
|--------------------------|--------------------------|---------------------|----------------------------------|

**Non-Conformance (check applicable items)**

| Sample Integrity               | Chain of Custody Clarification                   | If Broken Container:                                 |
|--------------------------------|--|--|
| Parameter(s) past holding time | Login Clarification Needed                       |  |
| Temperature not in range       | Chain of custody is incomplete                   | Insufficient packing material around container       |
| Improper container type        | Please specify Metals requested.                 | Insufficient packing material inside cooler          |
| X pH not in range.             | Please specify TCLP requested.                   | 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.                         | <b>If no Chain of Custody:</b>                       |
| 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: Metals container for EO-050119 received unreserved.**

|  |      |       |            |       |       |
|--|------|-------|------------|-------|-------|
| Client informed by:                        | Call | Email | Voice Mail | Date: | Time: |
| TSR Initials:bjf                           |      |       |            |       |       |
| <b>Login Instructions:</b> Client Contact: |      |       |            |       |       |

Adjust pH and note time/date of adjustment.



Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 173000 |           | 2710 | 20000 | 1        | 05/08/2019 17:18 | <a href="#">WG1276579</a> |

Sample Narrative:

L1094414-01 WG1276579: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 5390   |           | 51.9 | 1000 | 1        | 05/02/2019 15:46 | <a href="#">WG1274986</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 05/02/2019 15:46 | <a href="#">WG1274986</a> |
| Sulfate  | 318    | J J       | 77.4 | 5000 | 1        | 05/02/2019 15:46 | <a href="#">WG1274986</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 3750   |           | 102  | 1000 | 1        | 05/03/2019 13:44 | <a href="#">WG1275310</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 11900  |           | 15.0  | 100  | 1        | 05/12/2019 22:21 | <a href="#">WG1275858</a> |
| Manganese | 405    |           | 0.250 | 5.00 | 1        | 05/12/2019 22:21 | <a href="#">WG1275858</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 05/02/2019 20:52 | <a href="#">WG1275218</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.7   |           |      | 78.0-120 |          | 05/02/2019 20:52 | <a href="#">WG1275218</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 255    |           | 0.287 | 0.678 | 1        | 05/09/2019 13:12 | <a href="#">WG1277421</a> |
| Ethane  | 1.07   | J J       | 0.296 | 1.29  | 1        | 05/09/2019 13:12 | <a href="#">WG1277421</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 05/09/2019 13:12 | <a href="#">WG1277421</a> |

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              | 1.75   | U         | B J J O | 1.05  | 25.0     | 1                | 05/04/2019 01:24          | <a href="#">WG1275905</a> |
| Acrylonitrile        | U      |           | 0.873   | 5.00  | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |                           |
| Benzene              | U      |           | 0.0896  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |                           |
| Bromobenzene         | U      |           | 0.133   | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |                           |
| Bromodichloromethane | U      |           | 0.0800  | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |                           |
| Bromochloromethane   | U      |           | 0.145   | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |                           |
| Bromoform            | U      |           | 0.186   | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |                           |
| Bromomethane         | U      | UJ        | J O     | 0.157 | 2.50     | 1                | 05/04/2019 01:24          | <a href="#">WG1275905</a> |
| n-Butylbenzene       | U      |           | 0.143   | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |                           |
| sec-Butylbenzene     | U      |           | 0.134   | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |                           |
| tert-Butylbenzene    | U      |           | 0.183   | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |                           |
| Carbon disulfide     | 0.158  | J J       | 0.101   | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |                           |
| Carbon tetrachloride | U      |           | 0.159   | 0.500 | 1        | 05/04/2019 01:24 | <a href="#">WG1275905</a> |                           |

JC 5/16/19

- 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      |           |
| Chlorobenzene                  | U      |           | 0.140  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| Chlorodibromomethane           | U      |           | 0.128  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| Chloroethane                   | U      | UJ JO     | 0.141  | 2.50  | 1        | 05/04/2019 01:24 | WG1275905 |
| Chloroform                     | U      |           | 0.0860 | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| Chloromethane                  | U      |           | 0.153  | 1.25  | 1        | 05/04/2019 01:24 | WG1275905 |
| 2-Chlorotoluene                | U      |           | 0.111  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| 4-Chlorotoluene                | U      |           | 0.0972 | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| 1,2-Dibromo-3-Chloropropane    | U      |           | 0.325  | 2.50  | 1        | 05/04/2019 01:24 | WG1275905 |
| 1,2-Dibromoethane              | U      |           | 0.193  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| Dibromomethane                 | U      |           | 0.117  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| 1,2-Dichlorobenzene            | U      |           | 0.101  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| 1,3-Dichlorobenzene            | U      |           | 0.130  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| 1,4-Dichlorobenzene            | U      |           | 0.121  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| Dichlorodifluoromethane        | U      |           | 0.127  | 2.50  | 1        | 05/04/2019 01:24 | WG1275905 |
| 1,1-Dichloroethane             | U      |           | 0.114  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| 1,2-Dichloroethane             | U      |           | 0.108  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| 1,1-Dichloroethene             | U      |           | 0.188  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| cis-1,2-Dichloroethene         | U      |           | 0.0933 | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| trans-1,2-Dichloroethene       | U      |           | 0.152  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| 1,2-Dichloropropane            | U      |           | 0.190  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| 1,1-Dichloropropene            | U      |           | 0.128  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| 1,3-Dichloropropane            | U      |           | 0.147  | 1.00  | 1        | 05/04/2019 01:24 | WG1275905 |
| cis-1,3-Dichloropropene        | U      |           | 0.0976 | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| trans-1,3-Dichloropropene      | U      |           | 0.222  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| trans-1,4-Dichloro-2-butene    | U      |           | 0.257  | 5.00  | 1        | 05/04/2019 01:24 | WG1275905 |
| 2,2-Dichloropropane            | U      |           | 0.0929 | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| Di-isopropyl ether             | U      |           | 0.0924 | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| Ethylbenzene                   | U      |           | 0.158  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| Hexachloro-1,3-butadiene       | U      |           | 0.157  | 1.00  | 1        | 05/04/2019 01:24 | WG1275905 |
| 2-Hexanone                     | U      |           | 0.757  | 5.00  | 1        | 05/04/2019 01:24 | WG1275905 |
| n-Hexane                       | U      |           | 0.305  | 5.00  | 1        | 05/04/2019 01:24 | WG1275905 |
| Iodomethane                    | U      |           | 0.377  | 10.0  | 1        | 05/04/2019 01:24 | WG1275905 |
| Isopropylbenzene               | U      |           | 0.126  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| p-Isopropyltoluene             | U      |           | 0.138  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| 2-Butanone (MEK)               | U      |           | 1.28   | 5.00  | 1        | 05/04/2019 01:24 | WG1275905 |
| Methylene Chloride             | U      |           | 1.07   | 2.50  | 1        | 05/04/2019 01:24 | WG1275905 |
| 4-Methyl-2-pentanone (MIBK)    | U      |           | 0.823  | 5.00  | 1        | 05/04/2019 01:24 | WG1275905 |
| Methyl tert-butyl ether        | U      |           | 0.102  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| Naphthalene                    | U      |           | 0.174  | 2.50  | 1        | 05/04/2019 01:24 | WG1275905 |
| n-Propylbenzene                | U      |           | 0.162  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| Styrene                        | U      |           | 0.117  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| 1,1,1,2-Tetrachloroethane      | U      |           | 0.120  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| 1,1,2,2-Tetrachloroethane      | U      |           | 0.130  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| 1,1,2-Trichlorotrifluoroethane | U      |           | 0.164  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| Tetrachloroethene              | U      |           | 0.199  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| Toluene                        | U      |           | 0.412  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| 1,2,3-Trichlorobenzene         | U      |           | 0.164  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| 1,2,4-Trichlorobenzene         | U      |           | 0.355  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| 1,1,1-Trichloroethane          | U      |           | 0.0940 | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| 1,1,2-Trichloroethane          | U      |           | 0.186  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| Trichloroethene                | U      |           | 0.153  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| Trichlorofluoromethane         | U      | UJ JO     | 0.130  | 2.50  | 1        | 05/04/2019 01:24 | WG1275905 |
| 1,2,3-Trichloropropane         | U      |           | 0.247  | 2.50  | 1        | 05/04/2019 01:24 | WG1275905 |
| 1,2,4-Trimethylbenzene         | U      |           | 0.123  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| 1,2,3-Trimethylbenzene         | U      |           | 0.0739 | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |
| 1,3,5-Trimethylbenzene         | U      |           | 0.124  | 0.500 | 1        | 05/04/2019 01:24 | WG1275905 |

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

JC 5/16/19



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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |                           |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|---------------------------|
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 05/04/2019 01:24        | <a href="#">WG1275905</a> |                           |
| Vinyl chloride            | U              | UJ        | <u>JO</u>   | 0.118       | 0.500    | 1                       | 05/04/2019 01:24          | <a href="#">WG1275905</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 05/04/2019 01:24        | <a href="#">WG1275905</a> |                           |
| (S) Toluene-d8            | 98.8           |           |             | 80.0-120    |          | 05/04/2019 01:24        | <a href="#">WG1275905</a> |                           |
| (S) 4-Bromofluorobenzene  | 104            |           |             | 77.0-126    |          | 05/04/2019 01:24        | <a href="#">WG1275905</a> |                           |
| (S) 1,2-Dichloroethane-d4 | 96.6           |           |             | 70.0-130    |          | 05/04/2019 01:24        | <a href="#">WG1275905</a> |                           |

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

JC 5/16/19



Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 197000 |           | 2710 | 20000 | 1        | 05/08/2019 17:25 | <a href="#">WG1276579</a> |

Sample Narrative:

L1094414-02 WG1276579: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 10500  |           | 51.9 | 1000 | 1        | 05/02/2019 16:00 | <a href="#">WG1274986</a> |
| Nitrate  | U      |           | 22.7 | 100  | 1        | 05/02/2019 16:00 | <a href="#">WG1274986</a> |
| Sulfate  | 1260   | J J       | 77.4 | 5000 | 1        | 05/02/2019 16:00 | <a href="#">WG1274986</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 3790   |           | 102  | 1000 | 1        | 05/03/2019 13:56 | <a href="#">WG1275310</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 4600   |           | 15.0  | 100  | 1        | 05/12/2019 22:26 | <a href="#">WG1275858</a> |
| Manganese | 387    |           | 0.250 | 5.00 | 1        | 05/12/2019 22:26 | <a href="#">WG1275858</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 05/02/2019 21:16 | <a href="#">WG1275218</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.5   |           |      | 78.0-120 |          | 05/02/2019 21:16 | <a href="#">WG1275218</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 1070   |           | 0.287 | 0.678 | 1        | 05/09/2019 13:14 | <a href="#">WG1277421</a> |
| Ethane  | 4.41   |           | 0.296 | 1.29  | 1        | 05/09/2019 13:14 | <a href="#">WG1277421</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 05/09/2019 13:14 | <a href="#">WG1277421</a> |

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

| Analyte              | Result | Qualifier | MDL     | RDL   | Dilution | Analysis         | Batch                     |                           |
|----------------------|--------|-----------|---------|-------|----------|------------------|---------------------------|---------------------------|
|                      | ug/l   |           | ug/l    | ug/l  |          | date / time      |                           |                           |
| Acetone              | 4.06   | U         | B J J O | 1.05  | 25.0     | 1                | 05/04/2019 01:44          | <a href="#">WG1275905</a> |
| Acrylonitrile        | U      |           | 0.873   | 5.00  | 1        | 05/04/2019 01:44 | <a href="#">WG1275905</a> |                           |
| Benzene              | U      |           | 0.0896  | 0.500 | 1        | 05/04/2019 01:44 | <a href="#">WG1275905</a> |                           |
| Bromobenzene         | U      |           | 0.133   | 0.500 | 1        | 05/04/2019 01:44 | <a href="#">WG1275905</a> |                           |
| Bromodichloromethane | U      |           | 0.0800  | 0.500 | 1        | 05/04/2019 01:44 | <a href="#">WG1275905</a> |                           |
| Bromochloromethane   | U      |           | 0.145   | 0.500 | 1        | 05/04/2019 01:44 | <a href="#">WG1275905</a> |                           |
| Bromoform            | U      |           | 0.186   | 0.500 | 1        | 05/04/2019 01:44 | <a href="#">WG1275905</a> |                           |
| Bromomethane         | U      | UJ        | J O     | 0.157 | 2.50     | 1                | 05/04/2019 01:44          | <a href="#">WG1275905</a> |
| n-Butylbenzene       | U      |           | 0.143   | 0.500 | 1        | 05/04/2019 01:44 | <a href="#">WG1275905</a> |                           |
| sec-Butylbenzene     | U      |           | 0.134   | 0.500 | 1        | 05/04/2019 01:44 | <a href="#">WG1275905</a> |                           |
| tert-Butylbenzene    | U      |           | 0.183   | 0.500 | 1        | 05/04/2019 01:44 | <a href="#">WG1275905</a> |                           |
| Carbon disulfide     | U      |           | 0.101   | 0.500 | 1        | 05/04/2019 01:44 | <a href="#">WG1275905</a> |                           |
| Carbon tetrachloride | U      |           | 0.159   | 0.500 | 1        | 05/04/2019 01:44 | <a href="#">WG1275905</a> |                           |

JC 5/16/19

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| Chloroethane                   | U              | UJ JO     | 0.141       | 2.50        | 1        | 05/04/2019 01:44        | WG1275905 |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 05/04/2019 01:44        | WG1275905 |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 05/04/2019 01:44        | WG1275905 |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 05/04/2019 01:44        | WG1275905 |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| 1,1-Dichloroethene             | U              |           | 0.188       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| cis-1,2-Dichloroethene         | 2.58           |           | 0.0933      | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| trans-1,2-Dichloroethene       | U              |           | 0.152       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 05/04/2019 01:44        | WG1275905 |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 05/04/2019 01:44        | WG1275905 |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 05/04/2019 01:44        | WG1275905 |
| 2-Hexanone                     | U              |           | 0.757       | 5.00        | 1        | 05/04/2019 01:44        | WG1275905 |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 05/04/2019 01:44        | WG1275905 |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 05/04/2019 01:44        | WG1275905 |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 05/04/2019 01:44        | WG1275905 |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 05/04/2019 01:44        | WG1275905 |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 05/04/2019 01:44        | WG1275905 |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 05/04/2019 01:44        | WG1275905 |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| Trichloroethene                | 0.513          |           | 0.153       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| Trichlorofluoromethane         | U              | UJ JO     | 0.130       | 2.50        | 1        | 05/04/2019 01:44        | WG1275905 |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 05/04/2019 01:44        | WG1275905 |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 05/04/2019 01:44        | WG1275905 |

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

JC 5/16/19





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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| Vinyl chloride            | U              | UJ JO     | 0.118       | 0.500       | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| (S) Toluene-d8            | 95.9           |           |             | 80.0-120    |          | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| (S) 4-Bromofluorobenzene  | 104            |           |             | 77.0-126    |          | 05/04/2019 01:44        | <a href="#">WG1275905</a> |
| (S) 1,2-Dichloroethane-d4 | 98.6           |           |             | 70.0-130    |          | 05/04/2019 01:44        | <a href="#">WG1275905</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/16/19



## Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier         | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-------------------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |                   | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 9960   | <u>B</u> <u>J</u> | 2710 | 20000 | 1        | 05/08/2019 17:51 | <a href="#">WG1276579</a> |

## Sample Narrative:

L1094414-03 WG1276579: Endpoint pH 4.5 headspace

## Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier          | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|--------------------|------|------|----------|------------------|---------------------------|
|          | ug/l   |                    | ug/l | ug/l |          | date / time      |                           |
| Chloride | 80.6   | <u>J</u> <u>P1</u> | 51.9 | 1000 | 1        | 05/02/2019 16:43 | <a href="#">WG1274986</a> |
| Nitrate  | U      |                    | 22.7 | 100  | 1        | 05/02/2019 16:43 | <a href="#">WG1274986</a> |
| Sulfate  | U      |                    | 77.4 | 5000 | 1        | 05/02/2019 16:43 | <a href="#">WG1274986</a> |

## Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier         | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-------------------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |                   | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 299    | <u>B</u> <u>J</u> | 102  | 1000 | 1        | 05/03/2019 14:22 | <a href="#">WG1275310</a> |

## Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier         | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-------------------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |                   | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 39.8   | <u>J</u> <u>J</u> | 15.0  | 100  | 1        | 05/12/2019 22:32 | <a href="#">WG1275858</a> |
| Manganese | 2.10   | <u>J</u> <u>J</u> | 0.250 | 5.00 | 1        | 05/12/2019 22:32 | <a href="#">WG1275858</a> |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|------------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                    | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH      | U      |           | 31.6 | 100      | 1        | 05/02/2019 21:40 | <a href="#">WG1275218</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 98.5   |           |      | 78.0-120 |          | 05/02/2019 21:40 | <a href="#">WG1275218</a> |

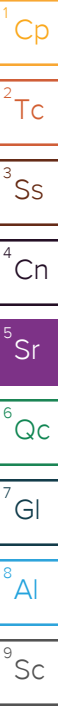
## Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | U      |           | 0.287 | 0.678 | 1        | 05/09/2019 13:17 | <a href="#">WG1277421</a> |
| Ethane  | U      |           | 0.296 | 1.29  | 1        | 05/09/2019 13:17 | <a href="#">WG1277421</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 05/09/2019 13:17 | <a href="#">WG1277421</a> |

JC 5/16/19

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

| Analyte              | Result | Qualifier                   | MDL    | RDL   | Dilution | Analysis         | Batch                     |
|----------------------|--------|-----------------------------|--------|-------|----------|------------------|---------------------------|
|                      | ug/l   |                             | ug/l   | ug/l  |          | date / time      |                           |
| Acetone              | 5.67   | <u>B</u> <u>J</u> <u>JO</u> | 1.05   | 25.0  | 1        | 05/03/2019 23:23 | <a href="#">WG1275905</a> |
| Acrylonitrile        | U      |                             | 0.873  | 5.00  | 1        | 05/03/2019 23:23 | <a href="#">WG1275905</a> |
| Benzene              | U      |                             | 0.0896 | 0.500 | 1        | 05/03/2019 23:23 | <a href="#">WG1275905</a> |
| Bromobenzene         | U      |                             | 0.133  | 0.500 | 1        | 05/03/2019 23:23 | <a href="#">WG1275905</a> |
| Bromodichloromethane | 0.344  | <u>J</u> <u>J</u>           | 0.0800 | 0.500 | 1        | 05/03/2019 23:23 | <a href="#">WG1275905</a> |
| Bromochloromethane   | U      |                             | 0.145  | 0.500 | 1        | 05/03/2019 23:23 | <a href="#">WG1275905</a> |
| Bromoform            | U      |                             | 0.186  | 0.500 | 1        | 05/03/2019 23:23 | <a href="#">WG1275905</a> |
| Bromomethane         | U      | <u>UJ</u> <u>JO</u>         | 0.157  | 2.50  | 1        | 05/03/2019 23:23 | <a href="#">WG1275905</a> |
| n-Butylbenzene       | U      |                             | 0.143  | 0.500 | 1        | 05/03/2019 23:23 | <a href="#">WG1275905</a> |
| sec-Butylbenzene     | U      |                             | 0.134  | 0.500 | 1        | 05/03/2019 23:23 | <a href="#">WG1275905</a> |
| tert-Butylbenzene    | U      |                             | 0.183  | 0.500 | 1        | 05/03/2019 23:23 | <a href="#">WG1275905</a> |
| Carbon disulfide     | U      |                             | 0.101  | 0.500 | 1        | 05/03/2019 23:23 | <a href="#">WG1275905</a> |
| Carbon tetrachloride | U      |                             | 0.159  | 0.500 | 1        | 05/03/2019 23:23 | <a href="#">WG1275905</a> |





Collected date/time: 05/01/19 14:29

L1094414

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| Chlorodibromomethane           | 0.200          | J J       | 0.128       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| Chloroethane                   | U              | UJ J      | 0.141       | 2.50        | 1        | 05/03/2019 23:23        | WG1275905 |
| Chloroform                     | 0.470          | J J       | 0.0860      | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 05/03/2019 23:23        | WG1275905 |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 05/03/2019 23:23        | WG1275905 |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 05/03/2019 23:23        | WG1275905 |
| 1,1-Dichloroethane             | U              |           | 0.114       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| 1,1-Dichloroethene             | U              |           | 0.188       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| cis-1,2-Dichloroethene         | U              |           | 0.0933      | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| trans-1,2-Dichloroethene       | U              |           | 0.152       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 05/03/2019 23:23        | WG1275905 |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 05/03/2019 23:23        | WG1275905 |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 05/03/2019 23:23        | WG1275905 |
| 2-Hexanone                     | U              |           | 0.757       | 5.00        | 1        | 05/03/2019 23:23        | WG1275905 |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 05/03/2019 23:23        | WG1275905 |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 05/03/2019 23:23        | WG1275905 |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 05/03/2019 23:23        | WG1275905 |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 05/03/2019 23:23        | WG1275905 |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 05/03/2019 23:23        | WG1275905 |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 05/03/2019 23:23        | WG1275905 |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| Trichlorofluoromethane         | U              | UJ J      | 0.130       | 2.50        | 1        | 05/03/2019 23:23        | WG1275905 |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 05/03/2019 23:23        | WG1275905 |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 05/03/2019 23:23        | WG1275905 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/16/19



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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| Vinyl chloride            | U              | UJ JO     | 0.118       | 0.500       | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| (S) Toluene-d8            | 98.7           |           |             | 80.0-120    |          | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| (S) 4-Bromofluorobenzene  | 106            |           |             | 77.0-126    |          | 05/03/2019 23:23        | <a href="#">WG1275905</a> |
| (S) 1,2-Dichloroethane-d4 | 94.7           |           |             | 70.0-130    |          | 05/03/2019 23:23        | <a href="#">WG1275905</a> |

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

JC 5/16/19



Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | U              |           | 31.6        | 100         | 1        | 05/02/2019 18:04        | <a href="#">WG1275218</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 98.6           |           |             | 78.0-120    |          | 05/02/2019 18:04        | <a href="#">WG1275218</a> |

- 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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch   |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---|
| Acetone                     | 1.36           | <u>J</u>  | 1.05        | 25.0        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| Acrylonitrile               | U              |           | 0.873       | 5.00        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| Benzene                     | U              |           | 0.0896      | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| Bromobenzene                | U              |           | 0.133       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| Bromodichloromethane        | U              |           | 0.0800      | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| Bromochloromethane          | U              |           | 0.145       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| Bromoform                   | U              |           | 0.186       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| Bromomethane                | U              | <u>JO</u> | 0.157       | 2.50        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| n-Butylbenzene              | U              |           | 0.143       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| sec-Butylbenzene            | U              |           | 0.134       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| tert-Butylbenzene           | U              |           | 0.183       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| Carbon disulfide            | U              |           | 0.101       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| Carbon tetrachloride        | U              |           | 0.159       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| Chlorobenzene               | U              |           | 0.140       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| Chlorodibromomethane        | U              |           | 0.128       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| Chloroethane                | U              | <u>JO</u> | 0.141       | 2.50        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| Chloroform                  | U              |           | 0.0860      | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| Chloromethane               | U              | <u>JO</u> | 0.153       | 1.25        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| 2-Chlorotoluene             | U              |           | 0.111       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> <span style="color: red;">JC 5/16/19</span> |
| 4-Chlorotoluene             | U              |           | 0.0972      | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| 1,2-Dibromo-3-Chloropropane | U              |           | 0.325       | 2.50        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| 1,2-Dibromoethane           | U              |           | 0.193       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| Dibromomethane              | U              |           | 0.117       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| 1,2-Dichlorobenzene         | U              |           | 0.101       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| 1,3-Dichlorobenzene         | U              |           | 0.130       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| 1,4-Dichlorobenzene         | U              |           | 0.121       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| Dichlorodifluoromethane     | U              |           | 0.127       | 2.50        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| 1,1-Dichloroethane          | U              |           | 0.114       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| 1,2-Dichloroethane          | U              |           | 0.108       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| 1,1-Dichloroethene          | U              |           | 0.188       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| cis-1,2-Dichloroethene      | U              |           | 0.0933      | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| trans-1,2-Dichloroethene    | U              |           | 0.152       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| 1,2-Dichloropropane         | U              |           | 0.190       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| 1,1-Dichloropropene         | U              |           | 0.128       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| 1,3-Dichloropropane         | U              |           | 0.147       | 1.00        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| cis-1,3-Dichloropropene     | U              |           | 0.0976      | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| trans-1,3-Dichloropropene   | U              |           | 0.222       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| trans-1,4-Dichloro-2-butene | U              | <u>JO</u> | 0.257       | 5.00        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| 2,2-Dichloropropane         | U              | <u>JO</u> | 0.0929      | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| Di-isopropyl ether          | U              |           | 0.0924      | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| Ethylbenzene                | U              |           | 0.158       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| Hexachloro-1,3-butadiene    | U              |           | 0.157       | 1.00        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| 2-Hexanone                  | U              |           | 0.757       | 5.00        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| n-Hexane                    | U              |           | 0.305       | 5.00        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| Iodomethane                 | U              |           | 0.377       | 10.0        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| Isopropylbenzene            | U              |           | 0.126       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| p-Isopropyltoluene          | U              |           | 0.138       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |
| 2-Butanone (MEK)            | U              |           | 1.28        | 5.00        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a>   |



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

| Analyte                        | Result<br>ug/l | Qualifier    | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|--------------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |              | 1.07        | 2.50        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |              | 0.823       | 5.00        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| Methyl tert-butyl ether        | U              |              | 0.102       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| Naphthalene                    | U              |              | 0.174       | 2.50        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| n-Propylbenzene                | U              |              | 0.162       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| Styrene                        | U              |              | 0.117       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| 1,1,1,2-Tetrachloroethane      | U              |              | 0.120       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| 1,1,2,2-Tetrachloroethane      | U              | <u>JO</u>    | 0.130       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |              | 0.164       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| Tetrachloroethene              | U              |              | 0.199       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| Toluene                        | U              |              | 0.412       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| 1,2,3-Trichlorobenzene         | U              |              | 0.164       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| 1,2,4-Trichlorobenzene         | U              |              | 0.355       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| 1,1,1-Trichloroethane          | U              |              | 0.0940      | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| 1,1,2-Trichloroethane          | U              |              | 0.186       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| Trichloroethene                | U              |              | 0.153       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| Trichlorofluoromethane         | U              | <u>J4</u>    | 0.130       | 2.50        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| 1,2,3-Trichloropropane         | U              | <u>JO</u>    | 0.247       | 2.50        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| 1,2,4-Trimethylbenzene         | U              |              | 0.123       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| 1,2,3-Trimethylbenzene         | U              |              | 0.0739      | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| 1,3,5-Trimethylbenzene         | U              |              | 0.124       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| Vinyl acetate                  | U              |              | 0.645       | 5.00        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| Vinyl chloride                 | U              | <u>JO J4</u> | 0.118       | 0.500       | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| Xylenes, Total                 | U              |              | 0.316       | 1.50        | 1        | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| (S) Toluene-d8                 | 97.5           |              |             | 80.0-120    |          | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| (S) 4-Bromofluorobenzene       | 111            |              |             | 77.0-126    |          | 05/07/2019 14:40        | <a href="#">WG1277193</a> |
| (S) 1,2-Dichloroethane-d4      | 86.1           |              |             | 70.0-130    |          | 05/07/2019 14:40        | <a href="#">WG1277193</a> |

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

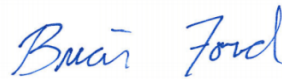
JC 5/16/19

## PES Environmental, Inc.- WA

Sample Delivery Group: L1095166  
Samples Received: 05/03/2019  
Project Number:  
Description:

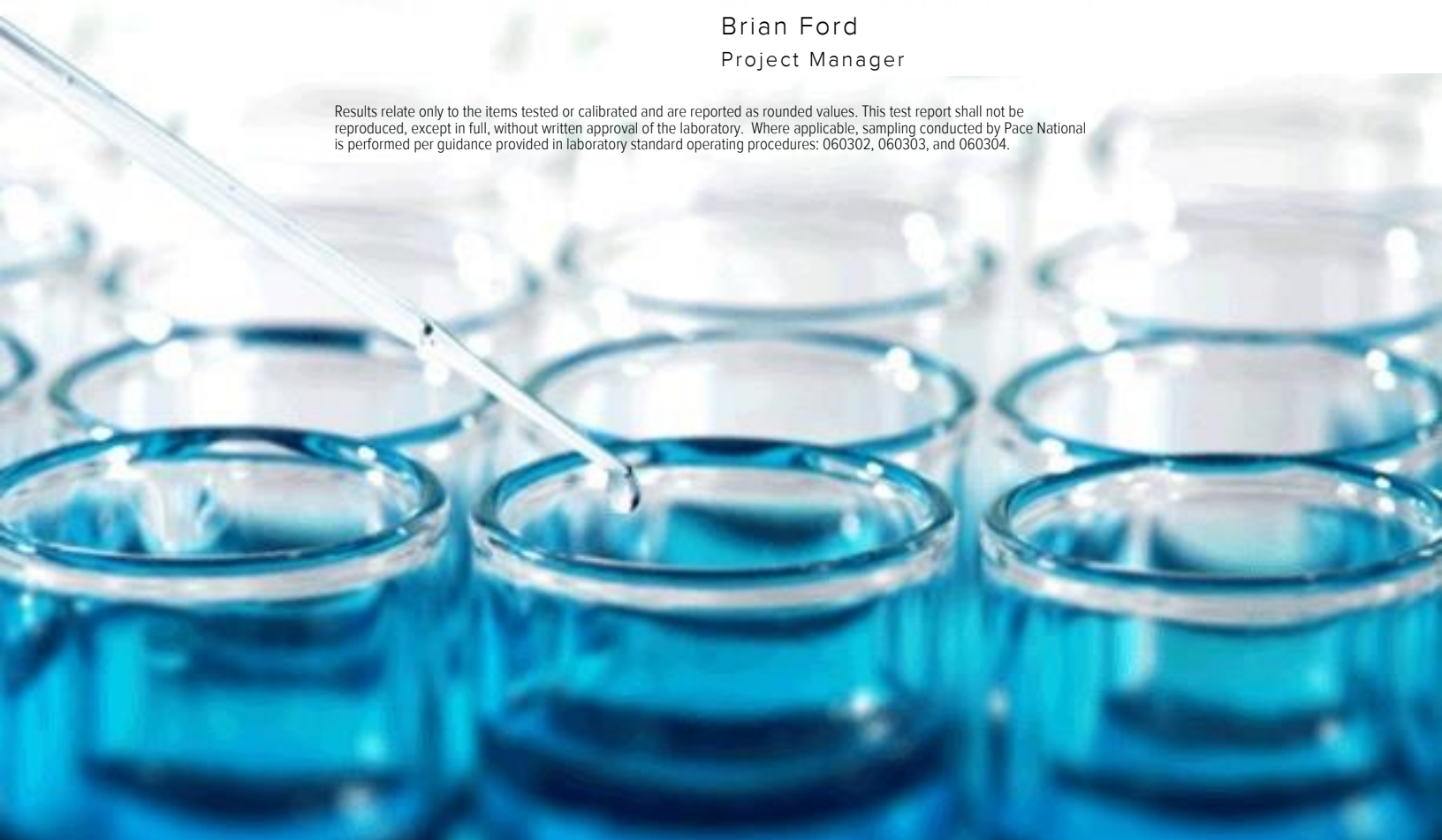
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford  
Project Manager

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|   |           |             |
|---|-----------|-------------|
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| <b>Tc: Table of Contents</b>                    | <b>2</b>  | <b>2</b> Tc |
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| <b>Sr: Sample Results</b>                       | <b>5</b>  | <b>5</b> Sr |
| SV01-042919 L1095166-01                         | <b>5</b>  |             |
| SV01-042919-D L1095166-02                       | <b>7</b>  |             |
| SV02-042919 L1095166-03                         | <b>9</b>  |             |
| SV03-042919 L1095166-04                         | <b>11</b> |             |
| <b>Qc: Quality Control Summary</b>              | <b>13</b> | <b>6</b> Qc |
| Volatile Organic Compounds (MS) by Method TO-15 | <b>13</b> |             |
| <b>Gl: Glossary of Terms</b>                    | <b>17</b> | <b>7</b> Gl |
| <b>Al: Accreditations &amp; Locations</b>       | <b>18</b> | <b>8</b> Al |
| <b>Sc: Sample Chain of Custody</b>              | <b>19</b> | <b>9</b> Sc |



# SAMPLE SUMMARY

## SV01-042919 L1095166-01 Air

Collected by C.D.      Collected date/time 04/29/19 10:25      Received date/time 05/03/19 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (MS) by Method TO-15 | WG1278777 | 2        | 05/10/19 18:55        | 05/10/19 18:55     | AMC     | Mt. Juliet, TN |

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## SV01-042919-D L1095166-02 Air

Collected by C.D.      Collected date/time 04/29/19 10:30      Received date/time 05/03/19 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (MS) by Method TO-15 | WG1278777 | 2        | 05/10/19 19:38        | 05/10/19 19:38     | AMC     | Mt. Juliet, TN |

## SV02-042919 L1095166-03 Air

Collected by C.D.      Collected date/time 04/29/19 11:40      Received date/time 05/03/19 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (MS) by Method TO-15 | WG1278777 | 2        | 05/10/19 20:21        | 05/10/19 20:21     | AMC     | Mt. Juliet, TN |

## SV03-042919 L1095166-04 Air

Collected by C.D.      Collected date/time 04/29/19 12:50      Received date/time 05/03/19 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (MS) by Method TO-15 | WG1278777 | 2        | 05/10/19 21:03        | 05/10/19 21:03     | AMC     | 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

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



## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| Acetone                        | 67-64-1    | 58.10    | 2.50         | 5.94          | 4.74           | 11.3            |           | 2        | WG1278777 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400        | 1.25          | ND             | ND              |           | 2        | WG1278777 |
| Benzene                        | 71-43-2    | 78.10    | 0.400        | 1.28          | ND             | ND              |           | 2        | WG1278777 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400        | 2.08          | ND             | ND              |           | 2        | WG1278777 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400        | 2.68          | ND             | ND              |           | 2        | WG1278777 |
| Bromoform                      | 75-25-2    | 253      | 1.20         | 12.4          | ND             | ND              |           | 2        | WG1278777 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400        | 1.55          | ND             | ND              |           | 2        | WG1278777 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00         | 8.85          | ND             | ND              |           | 2        | WG1278777 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400        | 1.24          | ND             | ND              |           | 2        | WG1278777 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400        | 2.52          | ND             | ND              |           | 2        | WG1278777 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1278777 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400        | 1.06          | ND             | ND              |           | 2        | WG1278777 |
| Chloroform                     | 67-66-3    | 119      | 0.400        | 1.95          | ND             | ND              |           | 2        | WG1278777 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400        | 0.826         | ND             | ND              |           | 2        | WG1278777 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400        | 2.06          | ND             | ND              |           | 2        | WG1278777 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400        | 1.38          | ND             | ND              |           | 2        | WG1278777 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400        | 3.40          | ND             | ND              |           | 2        | WG1278777 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400        | 3.08          | ND             | ND              |           | 2        | WG1278777 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1278777 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1278777 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1278777 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400        | 1.62          | ND             | ND              |           | 2        | WG1278777 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400        | 1.60          | ND             | ND              |           | 2        | WG1278777 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1278777 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1278777 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1278777 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1278777 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1278777 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1278777 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1278777 |
| Ethanol                        | 64-17-5    | 46.10    | 1.26         | 2.38          | 13.1           | 24.6            |           | 2        | WG1278777 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400        | 1.73          | ND             | ND              |           | 2        | WG1278777 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400        | 1.96          | ND             | ND              |           | 2        | WG1278777 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 0.400        | 2.25          | ND             | ND              |           | 2        | WG1278777 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 0.400        | 1.98          | 0.428          | 2.11            |           | 2        | WG1278777 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400        | 3.07          | ND             | ND              |           | 2        | WG1278777 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400        | 2.80          | ND             | ND              |           | 2        | WG1278777 |
| Heptane                        | 142-82-5   | 100      | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1278777 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26         | 13.5          | ND             | ND              |           | 2        | WG1278777 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400        | 1.41          | 0.415          | 1.46            |           | 2        | WG1278777 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400        | 1.97          | ND             | ND              |           | 2        | WG1278777 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400        | 1.39          | 2.01           | 7.00            |           | 2        | WG1278777 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1278777 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50         | 7.37          | ND             | ND              |           | 2        | WG1278777 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1278777 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1278777 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1278777 |
| Naphthalene                    | 91-20-3    | 128      | 1.26         | 6.60          | ND             | ND              |           | 2        | WG1278777 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50         | 6.15          | ND             | ND              |           | 2        | WG1278777 |
| Propene                        | 115-07-1   | 42.10    | 0.800        | 1.38          | ND             | ND              |           | 2        | WG1278777 |
| Styrene                        | 100-42-5   | 104      | 0.400        | 1.70          | ND             | ND              |           | 2        | WG1278777 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400        | 2.75          | ND             | ND              |           | 2        | WG1278777 |
| Tetrachloroethylene            | 127-18-4   | 166      | 0.400        | 2.72          | ND             | ND              |           | 2        | WG1278777 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400        | 1.18          | ND             | ND              |           | 2        | WG1278777 |
| Toluene                        | 108-88-3   | 92.10    | 0.400        | 1.51          | 1.70           | 6.41            |           | 2        | WG1278777 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26         | 9.33          | ND             | ND              |           | 2        | WG1278777 |

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<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch                     |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | 2.02           | 11.0            |           | 2        | <a href="#">WG1278777</a> |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | 0.831          | 3.60            |           | 2        | <a href="#">WG1278777</a> |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 104            |                 |           |          | <a href="#">WG1278777</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/29/19 10:30

L1095166

## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| Acetone                        | 67-64-1    | 58.10    | 2.50         | 5.94          | 5.74           | 13.6            |           | 2        | WG1278777 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400        | 1.25          | ND             | ND              |           | 2        | WG1278777 |
| Benzene                        | 71-43-2    | 78.10    | 0.400        | 1.28          | ND             | ND              |           | 2        | WG1278777 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400        | 2.08          | ND             | ND              |           | 2        | WG1278777 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400        | 2.68          | ND             | ND              |           | 2        | WG1278777 |
| Bromoform                      | 75-25-2    | 253      | 1.20         | 12.4          | ND             | ND              |           | 2        | WG1278777 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400        | 1.55          | ND             | ND              |           | 2        | WG1278777 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00         | 8.85          | ND             | ND              |           | 2        | WG1278777 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400        | 1.24          | ND             | ND              |           | 2        | WG1278777 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400        | 2.52          | ND             | ND              |           | 2        | WG1278777 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1278777 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400        | 1.06          | ND             | ND              |           | 2        | WG1278777 |
| Chloroform                     | 67-66-3    | 119      | 0.400        | 1.95          | ND             | ND              |           | 2        | WG1278777 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400        | 0.826         | 0.417          | 0.861           |           | 2        | WG1278777 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400        | 2.06          | ND             | ND              |           | 2        | WG1278777 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400        | 1.38          | ND             | ND              |           | 2        | WG1278777 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400        | 3.40          | ND             | ND              |           | 2        | WG1278777 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400        | 3.08          | ND             | ND              |           | 2        | WG1278777 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1278777 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1278777 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1278777 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400        | 1.62          | ND             | ND              |           | 2        | WG1278777 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400        | 1.60          | ND             | ND              |           | 2        | WG1278777 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1278777 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1278777 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1278777 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1278777 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1278777 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1278777 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1278777 |
| Ethanol                        | 64-17-5    | 46.10    | 1.26         | 2.38          | 15.2           | 28.7            |           | 2        | WG1278777 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400        | 1.73          | ND             | ND              |           | 2        | WG1278777 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400        | 1.96          | ND             | ND              |           | 2        | WG1278777 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 0.400        | 2.25          | ND             | ND              |           | 2        | WG1278777 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 0.400        | 1.98          | 0.413          | 2.04            |           | 2        | WG1278777 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400        | 3.07          | ND             | ND              |           | 2        | WG1278777 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400        | 2.80          | ND             | ND              |           | 2        | WG1278777 |
| Heptane                        | 142-82-5   | 100      | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1278777 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26         | 13.5          | ND             | ND              |           | 2        | WG1278777 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400        | 1.41          | 0.530          | 1.87            |           | 2        | WG1278777 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400        | 1.97          | ND             | ND              |           | 2        | WG1278777 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400        | 1.39          | 3.21           | 11.1            |           | 2        | WG1278777 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1278777 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50         | 7.37          | ND             | ND              |           | 2        | WG1278777 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1278777 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1278777 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1278777 |
| Naphthalene                    | 91-20-3    | 128      | 1.26         | 6.60          | ND             | ND              |           | 2        | WG1278777 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50         | 6.15          | ND             | ND              |           | 2        | WG1278777 |
| Propene                        | 115-07-1   | 42.10    | 0.800        | 1.38          | 0.903          | 1.55            |           | 2        | WG1278777 |
| Styrene                        | 100-42-5   | 104      | 0.400        | 1.70          | ND             | ND              |           | 2        | WG1278777 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400        | 2.75          | ND             | ND              |           | 2        | WG1278777 |
| Tetrachloroethylene            | 127-18-4   | 166      | 0.400        | 2.72          | ND             | ND              |           | 2        | WG1278777 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400        | 1.18          | ND             | ND              |           | 2        | WG1278777 |
| Toluene                        | 108-88-3   | 92.10    | 0.400        | 1.51          | 1.79           | 6.74            |           | 2        | WG1278777 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26         | 9.33          | ND             | ND              |           | 2        | WG1278777 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/29/19 10:30

L1095166

## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                    | CAS #     | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch                     |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | 2.32           | 12.6            |           | 2        | <a href="#">WG1278777</a> |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | 0.929          | 4.03            |           | 2        | <a href="#">WG1278777</a> |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 105            |                 |           |          | <a href="#">WG1278777</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/29/19 11:40

L1095166

## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| Acetone                        | 67-64-1    | 58.10    | 2.50         | 5.94          | 5.89           | 14.0            |           | 2        | WG1278777 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400        | 1.25          | ND             | ND              |           | 2        | WG1278777 |
| Benzene                        | 71-43-2    | 78.10    | 0.400        | 1.28          | ND             | ND              |           | 2        | WG1278777 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400        | 2.08          | ND             | ND              |           | 2        | WG1278777 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400        | 2.68          | ND             | ND              |           | 2        | WG1278777 |
| Bromoform                      | 75-25-2    | 253      | 1.20         | 12.4          | ND             | ND              |           | 2        | WG1278777 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400        | 1.55          | ND             | ND              |           | 2        | WG1278777 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00         | 8.85          | ND             | ND              |           | 2        | WG1278777 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400        | 1.24          | ND             | ND              |           | 2        | WG1278777 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400        | 2.52          | ND             | ND              |           | 2        | WG1278777 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1278777 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400        | 1.06          | ND             | ND              |           | 2        | WG1278777 |
| Chloroform                     | 67-66-3    | 119      | 0.400        | 1.95          | ND             | ND              |           | 2        | WG1278777 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400        | 0.826         | 0.412          | 0.851           |           | 2        | WG1278777 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400        | 2.06          | ND             | ND              |           | 2        | WG1278777 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400        | 1.38          | ND             | ND              |           | 2        | WG1278777 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400        | 3.40          | ND             | ND              |           | 2        | WG1278777 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400        | 3.08          | ND             | ND              |           | 2        | WG1278777 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1278777 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1278777 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1278777 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400        | 1.62          | ND             | ND              |           | 2        | WG1278777 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400        | 1.60          | ND             | ND              |           | 2        | WG1278777 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1278777 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1278777 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1278777 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1278777 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1278777 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1278777 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1278777 |
| Ethanol                        | 64-17-5    | 46.10    | 1.26         | 2.38          | 13.8           | 26.0            |           | 2        | WG1278777 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400        | 1.73          | ND             | ND              |           | 2        | WG1278777 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400        | 1.96          | ND             | ND              |           | 2        | WG1278777 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 0.400        | 2.25          | ND             | ND              |           | 2        | WG1278777 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 0.400        | 1.98          | 0.489          | 2.42            |           | 2        | WG1278777 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400        | 3.07          | ND             | ND              |           | 2        | WG1278777 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400        | 2.80          | ND             | ND              |           | 2        | WG1278777 |
| Heptane                        | 142-82-5   | 100      | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1278777 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26         | 13.5          | ND             | ND              |           | 2        | WG1278777 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400        | 1.41          | 0.485          | 1.71            |           | 2        | WG1278777 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400        | 1.97          | ND             | ND              |           | 2        | WG1278777 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400        | 1.39          | 2.76           | 9.58            |           | 2        | WG1278777 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1278777 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50         | 7.37          | ND             | ND              |           | 2        | WG1278777 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1278777 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1278777 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1278777 |
| Naphthalene                    | 91-20-3    | 128      | 1.26         | 6.60          | ND             | ND              |           | 2        | WG1278777 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50         | 6.15          | 2.69           | 6.60            |           | 2        | WG1278777 |
| Propene                        | 115-07-1   | 42.10    | 0.800        | 1.38          | 0.852          | 1.47            |           | 2        | WG1278777 |
| Styrene                        | 100-42-5   | 104      | 0.400        | 1.70          | ND             | ND              |           | 2        | WG1278777 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400        | 2.75          | ND             | ND              |           | 2        | WG1278777 |
| Tetrachloroethylene            | 127-18-4   | 166      | 0.400        | 2.72          | ND             | ND              |           | 2        | WG1278777 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400        | 1.18          | ND             | ND              |           | 2        | WG1278777 |
| Toluene                        | 108-88-3   | 92.10    | 0.400        | 1.51          | 1.08           | 4.08            |           | 2        | WG1278777 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26         | 9.33          | ND             | ND              |           | 2        | WG1278777 |

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<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch                     |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 103            |                 |           |          | <a href="#">WG1278777</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Collected date/time: 04/29/19 12:50

L1095166

## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| Acetone                        | 67-64-1    | 58.10    | 2.50         | 5.94          | 10.0           | 23.9            |           | 2        | WG1278777 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400        | 1.25          | ND             | ND              |           | 2        | WG1278777 |
| Benzene                        | 71-43-2    | 78.10    | 0.400        | 1.28          | ND             | ND              |           | 2        | WG1278777 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400        | 2.08          | ND             | ND              |           | 2        | WG1278777 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400        | 2.68          | ND             | ND              |           | 2        | WG1278777 |
| Bromoform                      | 75-25-2    | 253      | 1.20         | 12.4          | ND             | ND              |           | 2        | WG1278777 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400        | 1.55          | ND             | ND              |           | 2        | WG1278777 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00         | 8.85          | ND             | ND              |           | 2        | WG1278777 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400        | 1.24          | ND             | ND              |           | 2        | WG1278777 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400        | 2.52          | ND             | ND              |           | 2        | WG1278777 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1278777 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400        | 1.06          | ND             | ND              |           | 2        | WG1278777 |
| Chloroform                     | 67-66-3    | 119      | 0.400        | 1.95          | ND             | ND              |           | 2        | WG1278777 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400        | 0.826         | 0.695          | 1.44            |           | 2        | WG1278777 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400        | 2.06          | ND             | ND              |           | 2        | WG1278777 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400        | 1.38          | ND             | ND              |           | 2        | WG1278777 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400        | 3.40          | ND             | ND              |           | 2        | WG1278777 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400        | 3.08          | ND             | ND              |           | 2        | WG1278777 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1278777 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1278777 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1278777 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400        | 1.62          | ND             | ND              |           | 2        | WG1278777 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400        | 1.60          | ND             | ND              |           | 2        | WG1278777 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1278777 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1278777 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1278777 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1278777 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1278777 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1278777 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1278777 |
| Ethanol                        | 64-17-5    | 46.10    | 1.26         | 2.38          | 21.0           | 39.6            |           | 2        | WG1278777 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400        | 1.73          | ND             | ND              |           | 2        | WG1278777 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400        | 1.96          | ND             | ND              |           | 2        | WG1278777 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 0.400        | 2.25          | ND             | ND              |           | 2        | WG1278777 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 0.400        | 1.98          | 0.455          | 2.25            |           | 2        | WG1278777 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400        | 3.07          | ND             | ND              |           | 2        | WG1278777 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400        | 2.80          | ND             | ND              |           | 2        | WG1278777 |
| Heptane                        | 142-82-5   | 100      | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1278777 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26         | 13.5          | ND             | ND              |           | 2        | WG1278777 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400        | 1.41          | ND             | ND              |           | 2        | WG1278777 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400        | 1.97          | ND             | ND              |           | 2        | WG1278777 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400        | 1.39          | 0.776          | 2.69            |           | 2        | WG1278777 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1278777 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50         | 7.37          | ND             | ND              |           | 2        | WG1278777 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1278777 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1278777 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1278777 |
| Naphthalene                    | 91-20-3    | 128      | 1.26         | 6.60          | ND             | ND              |           | 2        | WG1278777 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50         | 6.15          | ND             | ND              |           | 2        | WG1278777 |
| Propene                        | 115-07-1   | 42.10    | 0.800        | 1.38          | ND             | ND              |           | 2        | WG1278777 |
| Styrene                        | 100-42-5   | 104      | 0.400        | 1.70          | ND             | ND              |           | 2        | WG1278777 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400        | 2.75          | ND             | ND              |           | 2        | WG1278777 |
| Tetrachloroethylene            | 127-18-4   | 166      | 0.400        | 2.72          | ND             | ND              |           | 2        | WG1278777 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400        | 1.18          | ND             | ND              |           | 2        | WG1278777 |
| Toluene                        | 108-88-3   | 92.10    | 0.400        | 1.51          | 0.540          | 2.03            |           | 2        | WG1278777 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26         | 9.33          | ND             | ND              |           | 2        | WG1278777 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/29/19 12:50

L1095166

## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                    | CAS #     | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch                     |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | 0.937          | 4.60            |           | 2        | <a href="#">WG1278777</a> |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | <a href="#">WG1278777</a> |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | 1.01           | 4.36            |           | 2        | <a href="#">WG1278777</a> |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | 0.438          | 1.90            |           | 2        | <a href="#">WG1278777</a> |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 117            |                 |           |          | <a href="#">WG1278777</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3410225-3 05/10/19 11:24

| Analyte                        | MB Result | MB Qualifier | MB MDL | MB RDL |
|--------------------------------|-----------|--------------|--------|--------|
|                                | ppbv      |              | ppbv   | 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  |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3410225-3 05/10/19 11:24

| Analyte                     | MB Result | MB Qualifier | MB MDL | MB RDL   |
|-----------------------------|-----------|--------------|--------|----------|
|                             | ppbv      |              | ppbv   | 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  | 104       |              |        | 60.0-140 |

- 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) R3410225-1 05/10/19 09:52 • (LCSD) R3410225-2 05/10/19 10:38

| Analyte                       | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD    | RPD Limits |
|-------------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|--------|------------|
|                               | ppbv         | ppbv       | ppbv        | %        | %         | %           |               |                | %      | %          |
| Ethanol                       | 3.75         | 3.53       | 3.38        | 94.2     | 90.2      | 55.0-148    |               |                | 4.36   | 25         |
| Propene                       | 3.75         | 3.83       | 3.81        | 102      | 102       | 64.0-144    |               |                | 0.450  | 25         |
| Dichlorodifluoromethane       | 3.75         | 3.86       | 3.83        | 103      | 102       | 64.0-139    |               |                | 0.686  | 25         |
| 1,2-Dichlorotetrafluoroethane | 3.75         | 3.81       | 3.81        | 102      | 102       | 70.0-130    |               |                | 0.0152 | 25         |
| Chloromethane                 | 3.75         | 3.71       | 3.71        | 98.9     | 98.8      | 70.0-130    |               |                | 0.118  | 25         |



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

(LCS) R3410225-1 05/10/19 09:52 • (LCSD) R3410225-2 05/10/19 10:38

| Analyte                        | Spike Amount<br>ppbv | LCS Result<br>ppbv | LCSD Result<br>ppbv | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|--------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Vinyl chloride                 | 3.75                 | 3.38               | 3.33                | 90.2          | 88.7           | 70.0-130         |               |                | 1.69     | 25              |
| 1,3-Butadiene                  | 3.75                 | 3.26               | 3.29                | 87.0          | 87.7           | 70.0-130         |               |                | 0.789    | 25              |
| Bromomethane                   | 3.75                 | 3.17               | 3.15                | 84.5          | 84.0           | 70.0-130         |               |                | 0.563    | 25              |
| Chloroethane                   | 3.75                 | 3.19               | 3.17                | 85.0          | 84.6           | 70.0-130         |               |                | 0.544    | 25              |
| Trichlorofluoromethane         | 3.75                 | 3.39               | 3.34                | 90.3          | 89.1           | 70.0-130         |               |                | 1.41     | 25              |
| 1,1,2-Trichlorotrifluoroethane | 3.75                 | 3.74               | 3.73                | 99.8          | 99.5           | 70.0-130         |               |                | 0.376    | 25              |
| 1,1-Dichloroethene             | 3.75                 | 3.71               | 3.69                | 98.9          | 98.3           | 70.0-130         |               |                | 0.668    | 25              |
| 1,1-Dichloroethane             | 3.75                 | 3.69               | 3.72                | 98.4          | 99.1           | 70.0-130         |               |                | 0.698    | 25              |
| Acetone                        | 3.75                 | 3.47               | 3.47                | 92.6          | 92.6           | 70.0-130         |               |                | 0.0499   | 25              |
| 2-Propanol                     | 3.75                 | 3.58               | 3.60                | 95.5          | 96.0           | 70.0-139         |               |                | 0.496    | 25              |
| Carbon disulfide               | 3.75                 | 3.65               | 3.71                | 97.3          | 99.0           | 70.0-130         |               |                | 1.68     | 25              |
| Methylene Chloride             | 3.75                 | 3.41               | 3.46                | 91.0          | 92.3           | 70.0-130         |               |                | 1.42     | 25              |
| MTBE                           | 3.75                 | 3.84               | 3.87                | 102           | 103            | 70.0-130         |               |                | 0.759    | 25              |
| trans-1,2-Dichloroethene       | 3.75                 | 3.73               | 3.76                | 99.4          | 100            | 70.0-130         |               |                | 0.787    | 25              |
| n-Hexane                       | 3.75                 | 3.80               | 3.80                | 101           | 101            | 70.0-130         |               |                | 0.165    | 25              |
| Vinyl acetate                  | 3.75                 | 3.85               | 3.84                | 103           | 102            | 70.0-130         |               |                | 0.402    | 25              |
| Methyl Ethyl Ketone            | 3.75                 | 3.75               | 3.77                | 100           | 101            | 70.0-130         |               |                | 0.584    | 25              |
| cis-1,2-Dichloroethene         | 3.75                 | 3.74               | 3.78                | 99.7          | 101            | 70.0-130         |               |                | 1.05     | 25              |
| Chloroform                     | 3.75                 | 3.65               | 3.64                | 97.3          | 97.1           | 70.0-130         |               |                | 0.214    | 25              |
| Cyclohexane                    | 3.75                 | 3.76               | 3.82                | 100           | 102            | 70.0-130         |               |                | 1.50     | 25              |
| 1,1,1-Trichloroethane          | 3.75                 | 3.72               | 3.74                | 99.2          | 99.7           | 70.0-130         |               |                | 0.481    | 25              |
| Carbon tetrachloride           | 3.75                 | 3.74               | 3.75                | 99.7          | 100            | 70.0-130         |               |                | 0.419    | 25              |
| Benzene                        | 3.75                 | 3.67               | 3.66                | 97.7          | 97.6           | 70.0-130         |               |                | 0.145    | 25              |
| 1,2-Dichloroethane             | 3.75                 | 3.69               | 3.70                | 98.3          | 98.6           | 70.0-130         |               |                | 0.261    | 25              |
| Heptane                        | 3.75                 | 3.78               | 3.79                | 101           | 101            | 70.0-130         |               |                | 0.328    | 25              |
| Trichloroethylene              | 3.75                 | 3.76               | 3.74                | 100           | 99.8           | 70.0-130         |               |                | 0.519    | 25              |
| 1,2-Dichloropropane            | 3.75                 | 3.64               | 3.60                | 97.0          | 96.0           | 70.0-130         |               |                | 1.08     | 25              |
| 1,4-Dioxane                    | 3.75                 | 3.79               | 3.84                | 101           | 102            | 70.0-140         |               |                | 1.45     | 25              |
| Bromodichloromethane           | 3.75                 | 3.65               | 3.64                | 97.3          | 97.0           | 70.0-130         |               |                | 0.320    | 25              |
| cis-1,3-Dichloropropene        | 3.75                 | 3.78               | 3.79                | 101           | 101            | 70.0-130         |               |                | 0.309    | 25              |
| 4-Methyl-2-pentanone (MIBK)    | 3.75                 | 3.73               | 3.78                | 99.5          | 101            | 70.0-139         |               |                | 1.43     | 25              |
| Toluene                        | 3.75                 | 3.81               | 3.82                | 102           | 102            | 70.0-130         |               |                | 0.334    | 25              |
| trans-1,3-Dichloropropene      | 3.75                 | 3.78               | 3.82                | 101           | 102            | 70.0-130         |               |                | 0.877    | 25              |
| 1,1,2-Trichloroethane          | 3.75                 | 3.66               | 3.67                | 97.5          | 97.8           | 70.0-130         |               |                | 0.311    | 25              |
| Tetrachloroethylene            | 3.75                 | 3.95               | 4.00                | 105           | 107            | 70.0-130         |               |                | 1.23     | 25              |
| Methyl Butyl Ketone            | 3.75                 | 3.81               | 3.87                | 102           | 103            | 70.0-149         |               |                | 1.66     | 25              |
| Dibromochloromethane           | 3.75                 | 3.82               | 3.82                | 102           | 102            | 70.0-130         |               |                | 0.0196   | 25              |
| 1,2-Dibromoethane              | 3.75                 | 3.81               | 3.80                | 102           | 101            | 70.0-130         |               |                | 0.302    | 25              |
| Chlorobenzene                  | 3.75                 | 3.72               | 3.68                | 99.1          | 98.1           | 70.0-130         |               |                | 0.941    | 25              |
| Ethylbenzene                   | 3.75                 | 3.80               | 3.83                | 101           | 102            | 70.0-130         |               |                | 0.850    | 25              |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



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

(LCS) R3410225-1 05/10/19 09:52 • (LCSD) R3410225-2 05/10/19 10:38

| Analyte                           | Spike Amount<br>ppbv | LCS Result<br>ppbv | LCSD Result<br>ppbv | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD<br>% | RPD Limits<br>% |
|-----------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| m&p-Xylene                        | 7.50                 | 7.91               | 7.90                | 105           | 105            | 70.0-130         |                      |                       | 0.130    | 25              |
| o-Xylene                          | 3.75                 | 4.06               | 4.04                | 108           | 108            | 70.0-130         |                      |                       | 0.552    | 25              |
| Styrene                           | 3.75                 | 4.06               | 4.04                | 108           | 108            | 70.0-130         |                      |                       | 0.560    | 25              |
| Bromoform                         | 3.75                 | 4.29               | 4.11                | 114           | 110            | 70.0-130         |                      |                       | 4.32     | 25              |
| 1,1,2,2-Tetrachloroethane         | 3.75                 | 3.81               | 3.66                | 102           | 97.7           | 70.0-130         |                      |                       | 3.97     | 25              |
| 4-Ethyltoluene                    | 3.75                 | 4.14               | 4.02                | 111           | 107            | 70.0-130         |                      |                       | 3.01     | 25              |
| 1,3,5-Trimethylbenzene            | 3.75                 | 4.02               | 4.03                | 107           | 108            | 70.0-130         |                      |                       | 0.422    | 25              |
| 1,2,4-Trimethylbenzene            | 3.75                 | 4.09               | 3.97                | 109           | 106            | 70.0-130         |                      |                       | 2.96     | 25              |
| 1,3-Dichlorobenzene               | 3.75                 | 4.10               | 3.95                | 109           | 105            | 70.0-130         |                      |                       | 3.55     | 25              |
| 1,4-Dichlorobenzene               | 3.75                 | 4.09               | 3.98                | 109           | 106            | 70.0-130         |                      |                       | 2.76     | 25              |
| Benzyl Chloride                   | 3.75                 | 4.07               | 3.88                | 108           | 103            | 70.0-152         |                      |                       | 4.68     | 25              |
| 1,2-Dichlorobenzene               | 3.75                 | 4.03               | 3.88                | 108           | 103            | 70.0-130         |                      |                       | 3.96     | 25              |
| 1,2,4-Trichlorobenzene            | 3.75                 | 4.45               | 4.24                | 119           | 113            | 70.0-160         |                      |                       | 4.81     | 25              |
| Hexachloro-1,3-butadiene          | 3.75                 | 4.37               | 4.24                | 116           | 113            | 70.0-151         |                      |                       | 2.85     | 25              |
| Naphthalene                       | 3.75                 | 4.24               | 4.16                | 113           | 111            | 70.0-159         |                      |                       | 2.00     | 25              |
| Allyl Chloride                    | 3.75                 | 3.87               | 3.83                | 103           | 102            | 70.0-130         |                      |                       | 1.04     | 25              |
| 2-Chlorotoluene                   | 3.75                 | 4.02               | 3.97                | 107           | 106            | 70.0-130         |                      |                       | 1.25     | 25              |
| Methyl Methacrylate               | 3.75                 | 3.67               | 3.69                | 97.8          | 98.4           | 70.0-130         |                      |                       | 0.663    | 25              |
| Tetrahydrofuran                   | 3.75                 | 3.70               | 3.73                | 98.7          | 99.5           | 70.0-137         |                      |                       | 0.721    | 25              |
| 2,2,4-Trimethylpentane            | 3.75                 | 3.84               | 3.86                | 102           | 103            | 70.0-130         |                      |                       | 0.592    | 25              |
| Vinyl Bromide                     | 3.75                 | 3.37               | 3.30                | 89.9          | 87.9           | 70.0-130         |                      |                       | 2.17     | 25              |
| Isopropylbenzene                  | 3.75                 | 4.12               | 4.06                | 110           | 108            | 70.0-130         |                      |                       | 1.39     | 25              |
| <i>(S) 1,4-Bromofluorobenzene</i> |                      |                    |                     | 106           | 104            | 60.0-140         |                      |                       |          |                 |

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.  |
| 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 <sup>1</sup>     | n/a              |
| Colorado                | TN00003     | New York                    | 11742            |
| Connecticut             | PH-0197     | North Carolina              | Env375           |
| Florida                 | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                 | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>    | 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 <sup>1,6</sup> | 90010       | South Carolina              | 84004            |
| Kentucky <sup>2</sup>   | 16          | South Dakota                | n/a              |
| Louisiana               | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana <sup>1</sup>  | LA180010    | Texas                       | T104704245-18-15 |
| Maine                   | TN0002      | Texas <sup>5</sup>          | 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             |

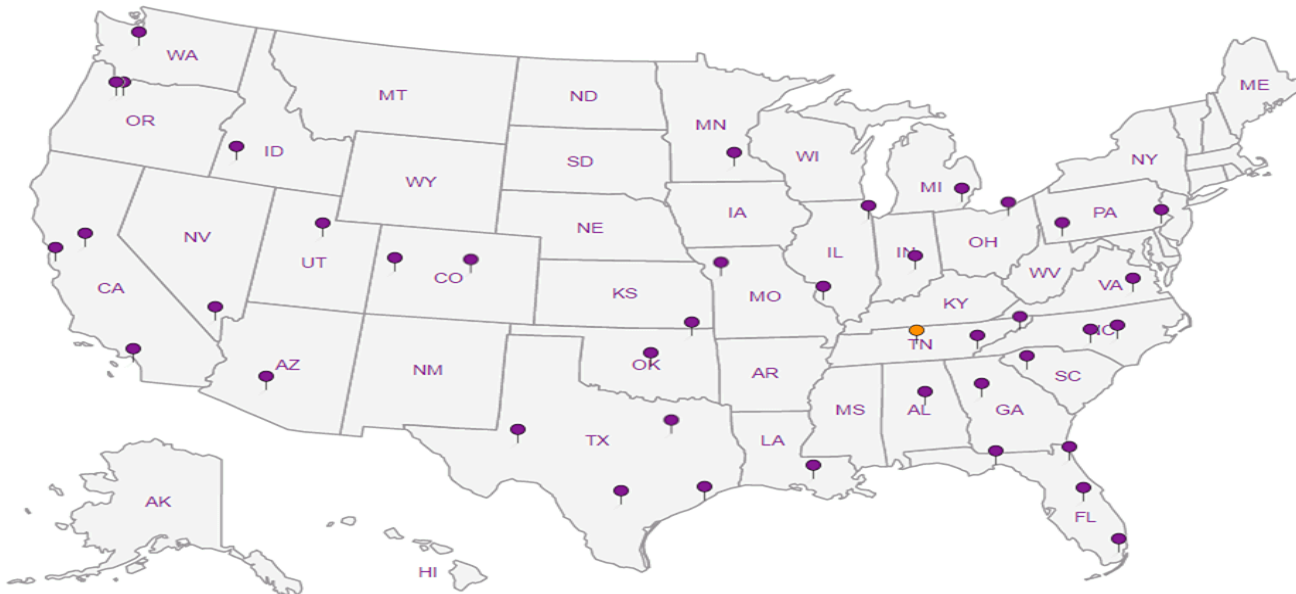
## Third Party Federal Accreditations

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

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



**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;  
bhaldeman@pesenv.com;

Project Description: *American Linen*

City/State Collected: *Seattle, WA*

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

Client Project #

*141500*

Lab Project #  
**PESENVSWA-ALP**

Collected by (print):

*C. Deboer*

Site/Facility ID #

P.O. #

Collected by (signature):

*Chris Deboer*

**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 Cntrs

TO-15 Summa

| Sample ID            | Comp/Grab   | Matrix *   | Depth      | Date           | Time        | No. of Cntrs |
|----------------------|-------------|------------|------------|----------------|-------------|--------------|
| <i>SV01-042919</i>   | <i>Grab</i> | <i>Air</i> | <i>~12</i> | <i>4/29/19</i> | <i>1035</i> | <i>1</i>     |
| <i>SV01-042919-D</i> | <i>↓</i>    | <i>Air</i> | <i>~12</i> | <i>↓</i>       | <i>1030</i> | <i>1</i>     |
| <i>SV02-042919</i>   | <i>↓</i>    | <i>Air</i> | <i>~12</i> | <i>↓</i>       | <i>1140</i> | <i>1</i>     |
| <i>SV03-042919</i>   | <i>↓</i>    | <i>Air</i> | <i>~12</i> | <i>↓</i>       | <i>1250</i> | <i>1</i>     |

L# *L1095166*

Table #

Acctnum: **PESENVSWA**

Template: **T148412**

Prelogin: **P701387**

TSR: **110 - Brian Ford**

PB: *BF 4/3/19*

Shipped Via: **FedEX Ground**

Remarks Sample # (lab only)

*-01*  
*-02*  
*-03*  
*-04*

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

Remarks:

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 Headspace:  Y  N  
Preservation Correct/Checked:  Y  N

Samples returned via:  
 UPS  FedEx  Courier

Tracking # *479488362250*

Relinquished by: (Signature)

*Chris Deboer*

Date:

*4/29/19*

Time:

*1400*

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH

TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C *Amb* Bottles Received: *4*

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: *5/3/19* Time: *8:45*

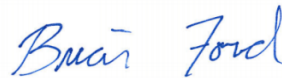
Hold:

Condition:  
NCF / OK

## PES Environmental, Inc.- WA

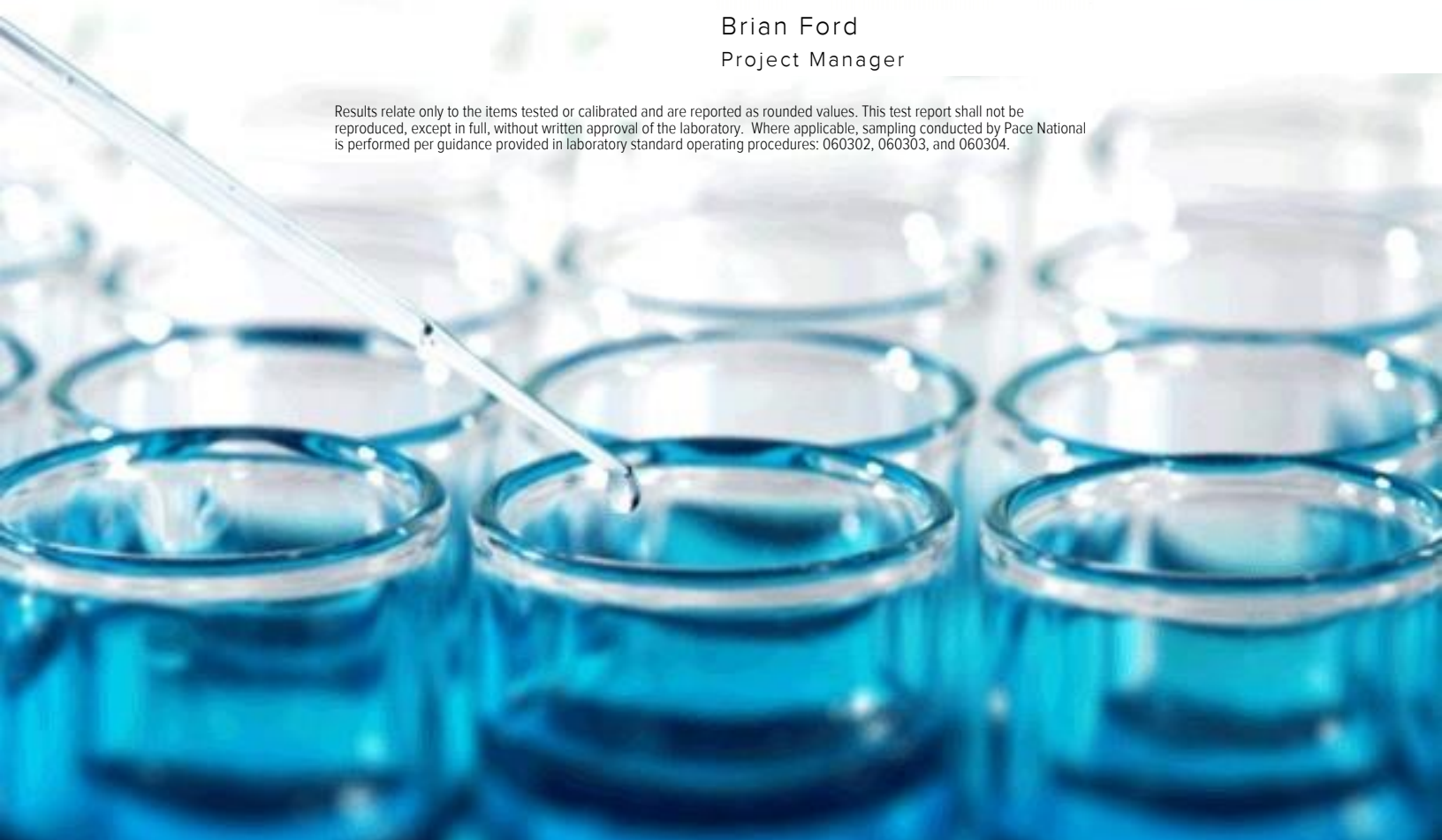
Sample Delivery Group: L1095349  
Samples Received: 05/04/2019  
Project Number: 1413.001.05.601  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

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.





|   |           |                |
|---|-----------|----------------|
| <b>Cp: Cover Page</b>                                     | <b>1</b>  | <b>1</b><br>Cp |
| <b>Tc: Table of Contents</b>                              | <b>2</b>  |                |
| <b>Ss: Sample Summary</b>                                 | <b>3</b>  | <b>2</b><br>Tc |
| <b>Cn: Case Narrative</b>                                 | <b>4</b>  |                |
| <b>Sr: Sample Results</b>                                 | <b>5</b>  | <b>3</b><br>Ss |
| <b>MW120-050319 L1095349-01</b>                           | <b>5</b>  |                |
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| <b>Wet Chemistry by Method 9056A</b>                      | <b>14</b> |                |
| <b>Wet Chemistry by Method 9060A</b>                      | <b>16</b> | <b>7</b><br>Gl |
| <b>Metals (ICPMS) by Method 6020B</b>                     | <b>17</b> |                |
| <b>Volatile Organic Compounds (GC) by Method NWTPHGX</b>  | <b>18</b> | <b>8</b><br>Al |
| <b>Volatile Organic Compounds (GC) by Method RSK175</b>   | <b>20</b> |                |
| <b>Volatile Organic Compounds (GC/MS) by Method 8260C</b> | <b>22</b> | <b>9</b><br>Sc |
| <b>Gl: Glossary of Terms</b>                              | <b>26</b> |                |
| <b>Al: Accreditations &amp; Locations</b>                 | <b>27</b> |                |
| <b>Sc: Sample Chain of Custody</b>                        | <b>28</b> |                |

# SAMPLE SUMMARY

## MW120-050319 L1095349-01 GW

Collected by  
K. Zygas  
Collected date/time  
05/03/19 09:00  
Received date/time  
05/04/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011                | WG1278682 | 1        | 05/10/19 16:24        | 05/10/19 16:24     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1276067 | 1        | 05/04/19 16:56        | 05/04/19 16:56     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                      | WG1276616 | 1        | 05/06/19 17:49        | 05/06/19 17:49     | AKA     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1275860 | 5        | 05/06/19 15:23        | 05/07/19 22:02     | LD      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1277188 | 1        | 05/07/19 17:48        | 05/07/19 17:48     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1277421 | 1        | 05/09/19 13:42        | 05/09/19 13:42     | DAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1277852 | 1        | 05/08/19 16:44        | 05/08/19 16:44     | ADM     | Mt. Juliet, TN |

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## MW911-050319 L1095349-02 GW

Collected by  
K. Zygas  
Collected date/time  
05/03/19 10:10  
Received date/time  
05/04/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Wet Chemistry by Method 2320 B-2011                | WG1278682 | 1        | 05/10/19 16:31        | 05/10/19 16:31     | GB      | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A                      | WG1276067 | 1        | 05/04/19 17:11        | 05/04/19 17:11     | ST      | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A                      | WG1276616 | 1        | 05/06/19 18:04        | 05/06/19 18:04     | AKA     | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1275860 | 1        | 05/06/19 15:23        | 05/07/19 14:18     | LD      | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B                     | WG1275860 | 2        | 05/06/19 15:23        | 05/07/19 21:48     | LD      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1277738 | 1        | 05/08/19 15:33        | 05/08/19 15:33     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method RSK175   | WG1277421 | 1        | 05/09/19 13:45        | 05/09/19 13:45     | DAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1277852 | 1        | 05/08/19 17:03        | 05/08/19 17:03     | ADM     | Mt. Juliet, TN |

## TRIP BLANK-050319 L1095349-03 GW

Collected by  
K. Zygas  
Collected date/time  
05/03/19 00:00  
Received date/time  
05/04/19 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG1277738 | 1        | 05/08/19 14:45        | 05/08/19 14:45     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1277852 | 1        | 05/08/19 14:27        | 05/08/19 14:27     | ADM     | 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

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



Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 217000 |           | 2710 | 20000 | 1        | 05/10/2019 16:24 | <a href="#">WG1278682</a> |

Sample Narrative:

L1095349-01 WG1278682: Endpoint pH 4.5

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 20500  |           | 51.9 | 1000 | 1        | 05/04/2019 16:56 | <a href="#">WG1276067</a> |
| Nitrate  | 2010   |           | 22.7 | 100  | 1        | 05/04/2019 16:56 | <a href="#">WG1276067</a> |
| Sulfate  | 66200  |           | 77.4 | 5000 | 1        | 05/04/2019 16:56 | <a href="#">WG1276067</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 1660   | <u>B</u>  | 102  | 1000 | 1        | 05/06/2019 17:49 | <a href="#">WG1276616</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Iron      | 2310   |           | 75.0 | 500  | 5        | 05/07/2019 22:02 | <a href="#">WG1275860</a> |
| Manganese | 384    |           | 1.25 | 25.0 | 5        | 05/07/2019 22:02 | <a href="#">WG1275860</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | 111    | <u>B</u>  | 31.6 | 100      | 1        | 05/07/2019 17:48 | <a href="#">WG1277188</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 85.3   |           |      | 78.0-120 |          | 05/07/2019 17:48 | <a href="#">WG1277188</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 157    |           | 0.287 | 0.678 | 1        | 05/09/2019 13:42 | <a href="#">WG1277421</a> |
| Ethane  | U      |           | 0.296 | 1.29  | 1        | 05/09/2019 13:42 | <a href="#">WG1277421</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 05/09/2019 13:42 | <a href="#">WG1277421</a> |

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        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |
| Benzene              | U      |           | 0.0896 | 0.500 | 1        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |
| Bromomethane         | U      |           | 0.157  | 2.50  | 1        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |
| Carbon disulfide     | U      |           | 0.101  | 0.500 | 1        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Chloroethane                   | U              |           | 0.141       | 2.50        | 1        | 05/08/2019 16:44        | WG1277852 |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 05/08/2019 16:44        | WG1277852 |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,1-Dichloroethane             | 1.70           |           | 0.114       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,1-Dichloroethene             | 0.812          |           | 0.188       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| cis-1,2-Dichloroethene         | 87.2           |           | 0.0933      | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| trans-1,2-Dichloroethene       | 0.258          | U         | 0.152       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 05/08/2019 16:44        | WG1277852 |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 05/08/2019 16:44        | WG1277852 |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 05/08/2019 16:44        | WG1277852 |
| 2-Hexanone                     | U              |           | 0.757       | 5.00        | 1        | 05/08/2019 16:44        | WG1277852 |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 05/08/2019 16:44        | WG1277852 |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 05/08/2019 16:44        | WG1277852 |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 05/08/2019 16:44        | WG1277852 |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 05/08/2019 16:44        | WG1277852 |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 05/08/2019 16:44        | WG1277852 |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 05/08/2019 16:44        | WG1277852 |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,1,2-Trichlorotrifluoroethane | 0.477          | U         | 0.164       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Tetrachloroethene              | 155            |           | 0.199       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,1,1-Trichloroethane          | 0.261          | U         | 0.0940      | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Trichloroethene                | 46.9           |           | 0.153       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Trichlorofluoromethane         | U              |           | 0.130       | 2.50        | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|----------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate                    | U              |           | 0.645       | 5.00        | 1        | 05/08/2019 16:44        | <a href="#">WG1277852</a> |
| Vinyl chloride                   | 1.28           |           | 0.118       | 0.500       | 1        | 05/08/2019 16:44        | <a href="#">WG1277852</a> |
| Xylenes, Total                   | U              |           | 0.316       | 1.50        | 1        | 05/08/2019 16:44        | <a href="#">WG1277852</a> |
| <i>(S) Toluene-d8</i>            | 92.8           |           |             | 80.0-120    |          | 05/08/2019 16:44        | <a href="#">WG1277852</a> |
| <i>(S) 4-Bromofluorobenzene</i>  | 93.5           |           |             | 77.0-126    |          | 05/08/2019 16:44        | <a href="#">WG1277852</a> |
| <i>(S) 1,2-Dichloroethane-d4</i> | 103            |           |             | 70.0-130    |          | 05/08/2019 16:44        | <a href="#">WG1277852</a> |

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 | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 217000 |           | 2710 | 20000 | 1        | 05/10/2019 16:31 | <a href="#">WG1278682</a> |

Sample Narrative:

L1095349-02 WG1278682: Endpoint pH 4.5

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 20300  |           | 51.9 | 1000 | 1        | 05/04/2019 17:11 | <a href="#">WG1276067</a> |
| Nitrate  | 1960   |           | 22.7 | 100  | 1        | 05/04/2019 17:11 | <a href="#">WG1276067</a> |
| Sulfate  | 65900  |           | 77.4 | 5000 | 1        | 05/04/2019 17:11 | <a href="#">WG1276067</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|-----------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 1580   | <u>B</u>  | 102  | 1000 | 1        | 05/06/2019 18:04 | <a href="#">WG1276616</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 1120   | <u>O1</u> | 15.0  | 100  | 1        | 05/07/2019 14:18 | <a href="#">WG1275860</a> |
| Manganese | 346    |           | 0.500 | 10.0 | 2        | 05/07/2019 21:48 | <a href="#">WG1275860</a> |
| Manganese | 321    | <u>O1</u> | 0.250 | 5.00 | 1        | 05/07/2019 14:18 | <a href="#">WG1275860</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | 138    | <u>B</u>  | 31.6 | 100      | 1        | 05/08/2019 15:33 | <a href="#">WG1277738</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 85.2   |           |      | 78.0-120 |          | 05/08/2019 15:33 | <a href="#">WG1277738</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 115    |           | 0.287 | 0.678 | 1        | 05/09/2019 13:45 | <a href="#">WG1277421</a> |
| Ethane  | U      |           | 0.296 | 1.29  | 1        | 05/09/2019 13:45 | <a href="#">WG1277421</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 05/09/2019 13:45 | <a href="#">WG1277421</a> |

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        | 05/08/2019 17:03 | <a href="#">WG1277852</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 05/08/2019 17:03 | <a href="#">WG1277852</a> |
| Benzene              | U      |           | 0.0896 | 0.500 | 1        | 05/08/2019 17:03 | <a href="#">WG1277852</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 05/08/2019 17:03 | <a href="#">WG1277852</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 05/08/2019 17:03 | <a href="#">WG1277852</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 05/08/2019 17:03 | <a href="#">WG1277852</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 05/08/2019 17:03 | <a href="#">WG1277852</a> |
| Bromomethane         | U      |           | 0.157  | 2.50  | 1        | 05/08/2019 17:03 | <a href="#">WG1277852</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 05/08/2019 17:03 | <a href="#">WG1277852</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 05/08/2019 17:03 | <a href="#">WG1277852</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 05/08/2019 17:03 | <a href="#">WG1277852</a> |
| Carbon disulfide     | U      |           | 0.101  | 0.500 | 1        | 05/08/2019 17:03 | <a href="#">WG1277852</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 05/03/19 10:10

L1095349

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Carbon tetrachloride           | U              |           | 0.159       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Chloroethane                   | U              |           | 0.141       | 2.50        | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Chloroform                     | 0.142          | U         | 0.0860      | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 1,1-Dichloroethane             | 1.76           |           | 0.114       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 1,1-Dichloroethene             | 0.866          |           | 0.188       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| cis-1,2-Dichloroethene         | 89.0           |           | 0.0933      | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| trans-1,2-Dichloroethene       | 0.227          | U         | 0.152       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 2-Hexanone                     | U              |           | 0.757       | 5.00        | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 1,1,2-Trichlorotrifluoroethane | 0.412          | U         | 0.164       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Tetrachloroethene              | 182            |           | 0.199       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 1,1,1-Trichloroethane          | 0.290          | U         | 0.0940      | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Trichloroethene                | 51.1           |           | 0.153       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Trichlorofluoromethane         | U              |           | 0.130       | 2.50        | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|----------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,3,5-Trimethylbenzene           | U              |           | 0.124       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Vinyl acetate                    | U              |           | 0.645       | 5.00        | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Vinyl chloride                   | 1.30           |           | 0.118       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Xylenes, Total                   | U              |           | 0.316       | 1.50        | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| <i>(S) Toluene-d8</i>            | 95.2           |           |             | 80.0-120    |          | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| <i>(S) 4-Bromofluorobenzene</i>  | 94.1           |           |             | 77.0-126    |          | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| <i>(S) 1,2-Dichloroethane-d4</i> | 102            |           |             | 70.0-130    |          | 05/08/2019 17:03        | <a href="#">WG1277852</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 05/03/19 00:00

L1095349

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | U              |           | 31.6        | 100         | 1        | 05/08/2019 14:45        | <a href="#">WG1277738</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 85.2           |           |             | 78.0-120    |          | 05/08/2019 14:45        | <a href="#">WG1277738</a> |

- 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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | U              |           | 1.05        | 25.0        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Acrylonitrile               | U              |           | 0.873       | 5.00        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Benzene                     | U              |           | 0.0896      | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Bromobenzene                | U              |           | 0.133       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Bromodichloromethane        | U              |           | 0.0800      | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Bromochloromethane          | U              |           | 0.145       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Bromoform                   | U              |           | 0.186       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Bromomethane                | U              |           | 0.157       | 2.50        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| n-Butylbenzene              | U              |           | 0.143       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| sec-Butylbenzene            | U              |           | 0.134       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| tert-Butylbenzene           | U              |           | 0.183       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Carbon disulfide            | U              |           | 0.101       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Carbon tetrachloride        | U              |           | 0.159       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Chlorobenzene               | U              |           | 0.140       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Chlorodibromomethane        | U              |           | 0.128       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Chloroethane                | U              |           | 0.141       | 2.50        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Chloroform                  | U              |           | 0.0860      | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Chloromethane               | U              |           | 0.153       | 1.25        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 2-Chlorotoluene             | U              |           | 0.111       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 4-Chlorotoluene             | U              |           | 0.0972      | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 1,2-Dibromo-3-Chloropropane | U              |           | 0.325       | 2.50        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 1,2-Dibromoethane           | U              |           | 0.193       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Dibromomethane              | U              |           | 0.117       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 1,2-Dichlorobenzene         | U              |           | 0.101       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 1,3-Dichlorobenzene         | U              |           | 0.130       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 1,4-Dichlorobenzene         | U              |           | 0.121       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Dichlorodifluoromethane     | U              |           | 0.127       | 2.50        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 1,1-Dichloroethane          | U              |           | 0.114       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 1,2-Dichloroethane          | U              |           | 0.108       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 1,1-Dichloroethene          | U              |           | 0.188       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| cis-1,2-Dichloroethene      | U              |           | 0.0933      | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| trans-1,2-Dichloroethene    | U              |           | 0.152       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 1,2-Dichloropropane         | U              |           | 0.190       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 1,1-Dichloropropene         | U              |           | 0.128       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 1,3-Dichloropropane         | U              |           | 0.147       | 1.00        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| cis-1,3-Dichloropropene     | U              |           | 0.0976      | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| trans-1,3-Dichloropropene   | U              |           | 0.222       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| trans-1,4-Dichloro-2-butene | U              |           | 0.257       | 5.00        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 2,2-Dichloropropane         | U              |           | 0.0929      | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Di-isopropyl ether          | U              |           | 0.0924      | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Ethylbenzene                | U              |           | 0.158       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Hexachloro-1,3-butadiene    | U              |           | 0.157       | 1.00        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 2-Hexanone                  | U              |           | 0.757       | 5.00        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| n-Hexane                    | U              |           | 0.305       | 5.00        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Iodomethane                 | U              |           | 0.377       | 10.0        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Isopropylbenzene            | U              |           | 0.126       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| p-Isopropyltoluene          | U              |           | 0.138       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 2-Butanone (MEK)            | U              |           | 1.28        | 5.00        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |



Collected date/time: 05/03/19 00:00

L1095349

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Trichlorofluoromethane         | U              |           | 0.130       | 2.50        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Vinyl acetate                  | U              |           | 0.645       | 5.00        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Vinyl chloride                 | U              |           | 0.118       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| (S) Toluene-d8                 | 94.0           |           |             | 80.0-120    |          | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| (S) 4-Bromofluorobenzene       | 94.3           |           |             | 77.0-126    |          | 05/08/2019 14:27        | <a href="#">WG1277852</a> |
| (S) 1,2-Dichloroethane-d4      | 105            |           |             | 70.0-130    |          | 05/08/2019 14:27        | <a href="#">WG1277852</a> |

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



Method Blank (MB)

(MB) R3410255-1 05/10/19 16:17

| Analyte    | MB Result | MB Qualifier | MB MDL | MB RDL |
|------------|-----------|--------------|--------|--------|
| Alkalinity | 3040      | ↓            | 2710   | 20000  |

Sample Narrative:

BLANK: Endpoint pH 4.5

L1095917-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1095917-14 05/10/19 19:01 • (DUP) R3410255-4 05/10/19 19:07

| Analyte    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|------------|-----------------|------------|----------|---------|---------------|----------------|
| Alkalinity | 507000          | 507000     | 1        | 0.0225  |               | 20             |

Sample Narrative:

OS: Endpoint pH 4.5 HEADSPACE

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3410255-3 05/10/19 17:28

| Analyte    | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|------------|--------------|------------|----------|-------------|---------------|
| Alkalinity | 100000       | 103000     | 103      | 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) R3408280-1 05/04/19 09:11

| 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   |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1094872-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1094872-01 05/04/19 12:58 • (DUP) R3408280-3 05/04/19 13:13

| Analyte  | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
|          | ug/l            | ug/l       |          | %       |               | %              |
| Chloride | 5320            | 5320       | 1        | 0.0639  |               | 15             |
| Nitrate  | 1970            | 1970       | 1        | 0.350   |               | 15             |
| Sulfate  | ND              | 3770       | 1        | 0.000   |               | 15             |

L1095349-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1095349-02 05/04/19 17:11 • (DUP) R3408280-6 05/04/19 17:26

| Analyte  | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
|          | ug/l            | ug/l       |          | %       |               | %              |
| Chloride | 20300           | 20300      | 1        | 0.277   |               | 15             |
| Nitrate  | 1960            | 1990       | 1        | 1.45    |               | 15             |
| Sulfate  | 65900           | 66000      | 1        | 0.225   |               | 15             |

Laboratory Control Sample (LCS)

(LCS) R3408280-2 05/04/19 09:26

| Analyte  | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------|--------------|------------|----------|-------------|---------------|
|          | ug/l         | ug/l       | %        | %           |               |
| Chloride | 40000        | 40400      | 101      | 80.0-120    |               |
| Nitrate  | 8000         | 8330       | 104      | 80.0-120    |               |
| Sulfate  | 40000        | 41100      | 103      | 80.0-120    |               |



L1094872-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1094872-01 05/04/19 12:58 • (MS) R3408280-4 05/04/19 13:28 • (MSD) R3408280-5 05/04/19 13:43

| Analyte  | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MSD Result<br>ug/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Chloride | 50000                | 5320                    | 55400             | 55400              | 100          | 100           | 1        | 80.0-120         |              |               | 0.141    | 15              |
| Nitrate  | 5000                 | 1970                    | 6920              | 6950               | 99.1         | 99.7          | 1        | 80.0-120         |              |               | 0.405    | 15              |
| Sulfate  | 50000                | ND                      | 54300             | 54500              | 101          | 101           | 1        | 80.0-120         |              |               | 0.369    | 15              |

L1095349-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1095349-02 05/04/19 17:11 • (MS) R3408280-7 05/04/19 17:41

| Analyte  | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MS Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier |
|----------|----------------------|-------------------------|-------------------|--------------|----------|------------------|--------------|
| Chloride | 50000                | 20300                   | 69600             | 98.6         | 1        | 80.0-120         |              |
| Nitrate  | 5000                 | 1960                    | 6940              | 99.6         | 1        | 80.0-120         |              |
| Sulfate  | 50000                | 65900                   | 114000            | 95.8         | 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) R3408691-1 05/06/19 12:54

| Analyte                    | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------------------|-----------|--------------|--------|--------|
| TOC (Total Organic Carbon) | 349       | <u>J</u>     | 102    | 1000   |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

L1095197-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1095197-03 05/06/19 14:58 • (DUP) R3408691-3 05/06/19 15:14

| Analyte                    | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------------------------|-----------------|------------|----------|---------|---------------|----------------|
| TOC (Total Organic Carbon) | ND              | 576        | 1        | 0.000   |               | 20             |

<sup>6</sup> Qc

Laboratory Control Sample (LCS)

(LCS) R3408691-2 05/06/19 13:33

| Analyte                    | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------------------------|--------------|------------|----------|-------------|---------------|
| TOC (Total Organic Carbon) | 75000        | 78500      | 105      | 85.0-115    |               |

<sup>7</sup> Gl

<sup>8</sup> Al

L1095315-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1095315-01 05/06/19 16:48 • (MS) R3408691-4 05/06/19 17:07 • (MSD) R3408691-5 05/06/19 17:34

| Analyte                    | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD  | RPD Limits |
|----------------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| TOC (Total Organic Carbon) | 50000        | 4770            | 77800     | 76800      | 146     | 144      | 1        | 80.0-120    | <u>J5</u>    | <u>J5</u>     | 1.36 | 20         |

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3409028-1 05/07/19 13:34

| Analyte   | MB Result | MB Qualifier | MB MDL | MB RDL |
|-----------|-----------|--------------|--------|--------|
| 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) R3409028-2 05/07/19 13:38 • (LCSD) R3409028-3 05/07/19 13:43

| Analyte   | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |
|-----------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| Iron      | 500          | 461        | 479         | 92.2     | 95.9      | 80.0-120    |               |                | 3.86 | 20         |
| Manganese | 50.0         | 45.6       | 46.8        | 91.2     | 93.6      | 80.0-120    |               |                | 2.63 | 20         |

L1095349-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1095349-02 05/07/19 14:18 • (MS) R3409028-5 05/07/19 15:28 • (MSD) R3409028-6 05/07/19 15:33

| Analyte   | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD  | RPD Limits |
|-----------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Iron      | 500          | 1120            | 1560      | 1600       | 87.3    | 95.2     | 1        | 75.0-125    |              |               | 2.50 | 20         |
| Manganese | 50.0         | 321             | 363       | 369        | 84.2    | 96.7     | 1        | 75.0-125    |              |               | 1.70 | 20         |



Method Blank (MB)

(MB) R3409240-2 05/07/19 11:58

| Analyte                            | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| Gasoline Range Organics-NWTPH      | 66.7              | ↓            | 31.6           | 100            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 84.5              |              |                | 78.0-120       |

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3409240-1 05/07/19 11:11

| Analyte                            | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|----------------------|--------------------|---------------|------------------|---------------|
| Gasoline Range Organics-NWTPH      | 5500                 | 4850               | 88.1          | 70.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                    | 89.4          | 78.0-120         |               |

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3409543-4 05/08/19 11:29

| Analyte                            | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| Gasoline Range Organics-NWTPH      | 59.7              | ↓            | 31.6           | 100            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 85.1              |              |                | 78.0-120       |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

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

(LCS) R3409543-1 05/08/19 09:55 • (LCSD) R3409543-3 05/08/19 10:42

| Analyte                            | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Gasoline Range Organics-NWTPH      | 5500                 | 4960               | 4900                | 90.1          | 89.0           | 70.0-124         |               |                | 1.19     | 20              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                    |                     | 89.7          | 89.6           | 78.0-120         |               |                |          |                 |

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3409706-1 05/09/19 11:19

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------|-----------|--------------|--------|--------|
|         | ug/l      |              | ug/l   | 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

L1094039-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1094039-01 05/09/19 11:34 • (DUP) R3409706-2 05/09/19 11:36

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
|         | ug/l            | ug/l       |          | %       |               | %              |
| Methane | 221             | 79.2       | 1        | 94.5    |               | 20             |
| Ethane  | ND              | 0.000      | 1        | 0.000   |               | 20             |
| Ethene  | ND              | 0.000      | 1        | 0.000   |               | 20             |

L1094407-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1094407-05 05/09/19 12:59 • (DUP) R3409706-3 05/09/19 13:02

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
|         | ug/l            | ug/l       |          | %       |               | %              |
| Methane | 519             | 536        | 1        | 3.25    |               | 20             |
| Ethane  | ND              | 0.000      | 1        | 0.000   |               | 20             |
| Ethene  | ND              | 0.000      | 1        | 0.000   |               | 20             |

L1095146-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1095146-01 05/09/19 13:38 • (DUP) R3409706-4 05/09/19 13:48

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------|-----------------|------------|----------|---------|---------------|----------------|
|         | ug/l            | ug/l       |          | %       |               | %              |
| Methane | 4330            | 4280       | 1        | 1.22    |               | 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) R3409706-5 05/09/19 13:51 • (LCSD) R3409706-6 05/09/19 13:57

| Analyte | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD<br>% | RPD Limits<br>% |
|---------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Methane | 67.8                 | 78.0               | 73.3                | 115           | 108            | 85.0-115         |                      |                       | 6.21     | 20              |
| Ethane  | 129                  | 120                | 115                 | 93.0          | 89.2           | 85.0-115         |                      |                       | 4.26     | 20              |
| Ethene  | 127                  | 119                | 114                 | 93.9          | 89.9           | 85.0-115         |                      |                       | 4.37     | 20              |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3409512-4 05/08/19 12:23

| Analyte                     | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>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          |
| Carbon tetrachloride        | U                 |              | 0.159          | 0.500          |
| tert-Butylbenzene           | U                 |              | 0.183          | 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           |
| 1,2-Dibromo-3-Chloropropane | U                 |              | 0.325          | 2.50           |
| 2-Chlorotoluene             | U                 |              | 0.111          | 0.500          |
| 1,2-Dibromoethane           | U                 |              | 0.193          | 0.500          |
| 4-Chlorotoluene             | U                 |              | 0.0972         | 0.500          |
| Dibromomethane              | U                 |              | 0.117          | 0.500          |
| 1,2-Dichlorobenzene         | U                 |              | 0.101          | 0.500          |
| 1,3-Dichlorobenzene         | U                 |              | 0.130          | 0.500          |
| 1,4-Dichlorobenzene         | U                 |              | 0.121          | 0.500          |
| trans-1,4-Dichloro-2-butene | U                 |              | 0.257          | 5.00           |
| Dichlorodifluoromethane     | U                 |              | 0.127          | 2.50           |
| 1,1-Dichloroethane          | U                 |              | 0.114          | 0.500          |
| 1,2-Dichloroethane          | U                 |              | 0.108          | 0.500          |
| 1,1-Dichloroethene          | U                 |              | 0.188          | 0.500          |
| cis-1,2-Dichloroethene      | U                 |              | 0.0933         | 0.500          |
| trans-1,2-Dichloroethene    | U                 |              | 0.152          | 0.500          |
| 1,2-Dichloropropane         | U                 |              | 0.190          | 0.500          |
| 1,1-Dichloropropene         | U                 |              | 0.128          | 0.500          |
| cis-1,3-Dichloropropene     | U                 |              | 0.0976         | 0.500          |
| 1,3-Dichloropropane         | U                 |              | 0.147          | 1.00           |
| trans-1,3-Dichloropropene   | U                 |              | 0.222          | 0.500          |
| n-Hexane                    | U                 |              | 0.305          | 5.00           |
| 2,2-Dichloropropane         | U                 |              | 0.0929         | 0.500          |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3409512-4 05/08/19 12:23

| Analyte                        | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|--------------------------------|-------------------|--------------|----------------|----------------|
| Di-isopropyl ether             | U                 |              | 0.0924         | 0.500          |
| Ethylbenzene                   | U                 |              | 0.158          | 0.500          |
| 2-Hexanone                     | U                 |              | 0.757          | 5.00           |
| Hexachloro-1,3-butadiene       | U                 |              | 0.157          | 1.00           |
| Iodomethane                    | U                 |              | 0.377          | 10.0           |
| 2-Butanone (MEK)               | U                 |              | 1.28           | 5.00           |
| Isopropylbenzene               | U                 |              | 0.126          | 0.500          |
| p-Isopropyltoluene             | U                 |              | 0.138          | 0.500          |
| 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           |
| Styrene                        | U                 |              | 0.117          | 0.500          |
| 1,1,1,2-Tetrachloroethane      | U                 |              | 0.120          | 0.500          |
| n-Propylbenzene                | U                 |              | 0.162          | 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          |
| 1,1,1-Trichloroethane          | U                 |              | 0.0940         | 0.500          |
| 1,2,3-Trichlorobenzene         | U                 |              | 0.164          | 0.500          |
| 1,1,2-Trichloroethane          | U                 |              | 0.186          | 0.500          |
| 1,2,4-Trichlorobenzene         | U                 |              | 0.355          | 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                 | 95.5              |              |                | 80.0-120       |
| (S) 4-Bromofluorobenzene       | 91.1              |              |                | 77.0-126       |
| (S) 1,2-Dichloroethane-d4      | 101               |              |                | 70.0-130       |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Laboratory Control Sample (LCS)

(LCS) R3409512-1 05/08/19 10:46

| Analyte                     | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> |
|-----------------------------|----------------------|--------------------|---------------|------------------|----------------------|
| Bromochloromethane          | 25.0                 | 24.3               | 97.3          | 76.0-122         |                      |
| Acetone                     | 125                  | 128                | 102           | 19.0-160         |                      |
| Acrylonitrile               | 125                  | 111                | 88.5          | 55.0-149         |                      |
| Benzene                     | 25.0                 | 22.5               | 89.8          | 70.0-123         |                      |
| Bromodichloromethane        | 25.0                 | 22.8               | 91.3          | 75.0-120         |                      |
| Bromoform                   | 25.0                 | 23.0               | 92.2          | 68.0-132         |                      |
| Bromomethane                | 25.0                 | 20.6               | 82.5          | 10.0-160         |                      |
| n-Hexane                    | 25.0                 | 23.1               | 92.6          | 57.0-133         |                      |
| Carbon disulfide            | 25.0                 | 19.3               | 77.3          | 61.0-128         |                      |
| Carbon tetrachloride        | 25.0                 | 22.9               | 91.5          | 68.0-126         |                      |
| Chlorobenzene               | 25.0                 | 23.5               | 94.0          | 80.0-121         |                      |
| Bromobenzene                | 25.0                 | 22.8               | 91.4          | 73.0-121         |                      |
| Chlorodibromomethane        | 25.0                 | 23.7               | 94.7          | 77.0-125         |                      |
| Chloroethane                | 25.0                 | 23.9               | 95.7          | 47.0-150         |                      |
| Chloroform                  | 25.0                 | 23.7               | 94.8          | 73.0-120         |                      |
| Chloromethane               | 25.0                 | 21.5               | 86.1          | 41.0-142         |                      |
| n-Butylbenzene              | 25.0                 | 22.9               | 91.6          | 73.0-125         |                      |
| 1,2-Dibromo-3-Chloropropane | 25.0                 | 18.3               | 73.4          | 58.0-134         |                      |
| sec-Butylbenzene            | 25.0                 | 22.7               | 90.8          | 75.0-125         |                      |
| 1,2-Dibromoethane           | 25.0                 | 23.3               | 93.3          | 80.0-122         |                      |
| tert-Butylbenzene           | 25.0                 | 24.3               | 97.1          | 76.0-124         |                      |
| Dibromomethane              | 25.0                 | 23.7               | 94.8          | 80.0-120         |                      |
| 1,2-Dichlorobenzene         | 25.0                 | 22.1               | 88.5          | 79.0-121         |                      |
| 1,3-Dichlorobenzene         | 25.0                 | 22.4               | 89.7          | 79.0-120         |                      |
| 1,4-Dichlorobenzene         | 25.0                 | 21.8               | 87.1          | 79.0-120         |                      |
| trans-1,4-Dichloro-2-butene | 25.0                 | 21.2               | 84.6          | 33.0-144         |                      |
| Dichlorodifluoromethane     | 25.0                 | 22.7               | 90.7          | 51.0-149         |                      |
| 1,1-Dichloroethane          | 25.0                 | 24.4               | 97.5          | 70.0-126         |                      |
| 1,2-Dichloroethane          | 25.0                 | 23.1               | 92.5          | 70.0-128         |                      |
| 1,1-Dichloroethene          | 25.0                 | 22.8               | 91.3          | 71.0-124         |                      |
| 2-Chlorotoluene             | 25.0                 | 24.3               | 97.2          | 76.0-123         |                      |
| 4-Chlorotoluene             | 25.0                 | 23.8               | 95.2          | 75.0-122         |                      |
| cis-1,2-Dichloroethene      | 25.0                 | 24.0               | 96.0          | 73.0-120         |                      |
| trans-1,2-Dichloroethene    | 25.0                 | 24.4               | 97.6          | 73.0-120         |                      |
| 1,2-Dichloropropane         | 25.0                 | 25.1               | 101           | 77.0-125         |                      |
| cis-1,3-Dichloropropene     | 25.0                 | 23.4               | 93.7          | 80.0-123         |                      |
| trans-1,3-Dichloropropene   | 25.0                 | 22.7               | 90.8          | 78.0-124         |                      |
| Di-isopropyl ether          | 25.0                 | 23.0               | 91.8          | 58.0-138         |                      |
| Ethylbenzene                | 25.0                 | 23.5               | 93.9          | 79.0-123         |                      |
| 2-Hexanone                  | 125                  | 119                | 94.9          | 67.0-149         |                      |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3409512-1 05/08/19 10:46

| Analyte                        | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> |
|--------------------------------|----------------------|--------------------|---------------|------------------|----------------------|
| 1,1-Dichloropropene            | 25.0                 | 22.7               | 90.7          | 74.0-126         |                      |
| Iodomethane                    | 125                  | 119                | 95.0          | 33.0-147         |                      |
| 1,3-Dichloropropane            | 25.0                 | 22.8               | 91.1          | 80.0-120         |                      |
| 2-Butanone (MEK)               | 125                  | 119                | 95.6          | 44.0-160         |                      |
| 2,2-Dichloropropane            | 25.0                 | 26.3               | 105           | 58.0-130         |                      |
| Methylene Chloride             | 25.0                 | 24.7               | 98.9          | 67.0-120         |                      |
| 4-Methyl-2-pentanone (MIBK)    | 125                  | 113                | 90.1          | 68.0-142         |                      |
| Methyl tert-butyl ether        | 25.0                 | 22.1               | 88.6          | 68.0-125         |                      |
| Naphthalene                    | 25.0                 | 19.4               | 77.6          | 54.0-135         |                      |
| Hexachloro-1,3-butadiene       | 25.0                 | 25.6               | 102           | 54.0-138         |                      |
| Styrene                        | 25.0                 | 22.6               | 90.5          | 73.0-130         |                      |
| 1,1,1,2-Tetrachloroethane      | 25.0                 | 23.6               | 94.5          | 75.0-125         |                      |
| 1,1,2,2-Tetrachloroethane      | 25.0                 | 24.3               | 97.1          | 65.0-130         |                      |
| Isopropylbenzene               | 25.0                 | 22.4               | 89.7          | 76.0-127         |                      |
| p-Isopropyltoluene             | 25.0                 | 23.7               | 94.9          | 76.0-125         |                      |
| Tetrachloroethene              | 25.0                 | 24.4               | 97.6          | 72.0-132         |                      |
| Toluene                        | 25.0                 | 21.4               | 85.5          | 79.0-120         |                      |
| 1,1,1-Trichloroethane          | 25.0                 | 22.8               | 91.1          | 73.0-124         |                      |
| 1,1,2-Trichloroethane          | 25.0                 | 23.7               | 94.7          | 80.0-120         |                      |
| Trichloroethene                | 25.0                 | 22.6               | 90.2          | 78.0-124         |                      |
| Trichlorofluoromethane         | 25.0                 | 23.3               | 93.3          | 59.0-147         |                      |
| 1,2,3-Trichloropropane         | 25.0                 | 24.6               | 98.6          | 73.0-130         |                      |
| n-Propylbenzene                | 25.0                 | 24.1               | 96.3          | 77.0-124         |                      |
| Vinyl acetate                  | 125                  | 138                | 110           | 11.0-160         |                      |
| Vinyl chloride                 | 25.0                 | 24.3               | 97.2          | 67.0-131         |                      |
| Xylenes, Total                 | 75.0                 | 70.0               | 93.3          | 79.0-123         |                      |
| 1,1,2-Trichlorotrifluoroethane | 25.0                 | 24.3               | 97.3          | 69.0-132         |                      |
| 1,2,3-Trichlorobenzene         | 25.0                 | 23.5               | 93.9          | 50.0-138         |                      |
| 1,2,4-Trichlorobenzene         | 25.0                 | 23.3               | 93.2          | 57.0-137         |                      |
| 1,2,3-Trimethylbenzene         | 25.0                 | 21.1               | 84.3          | 77.0-120         |                      |
| 1,2,4-Trimethylbenzene         | 25.0                 | 23.1               | 92.3          | 76.0-121         |                      |
| 1,3,5-Trimethylbenzene         | 25.0                 | 23.2               | 92.6          | 76.0-122         |                      |
| (S) Toluene-d8                 |                      |                    | 95.6          | 80.0-120         |                      |
| (S) 4-Bromofluorobenzene       |                      |                    | 96.6          | 77.0-126         |                      |
| (S) 1,2-Dichloroethane-d4      |                      |                    | 101           | 70.0-130         |                      |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> 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.  |
| 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.   |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high.  |
| O1 | The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference. |

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 <sup>1</sup>     | n/a              |
| Colorado                | TN00003     | New York                    | 11742            |
| Connecticut             | PH-0197     | North Carolina              | Env375           |
| Florida                 | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                 | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>    | 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 <sup>1,6</sup> | 90010       | South Carolina              | 84004            |
| Kentucky <sup>2</sup>   | 16          | South Dakota                | n/a              |
| Louisiana               | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana <sup>1</sup>  | LA180010    | Texas                       | T104704245-18-15 |
| Maine                   | TN0002      | Texas <sup>5</sup>          | 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             |

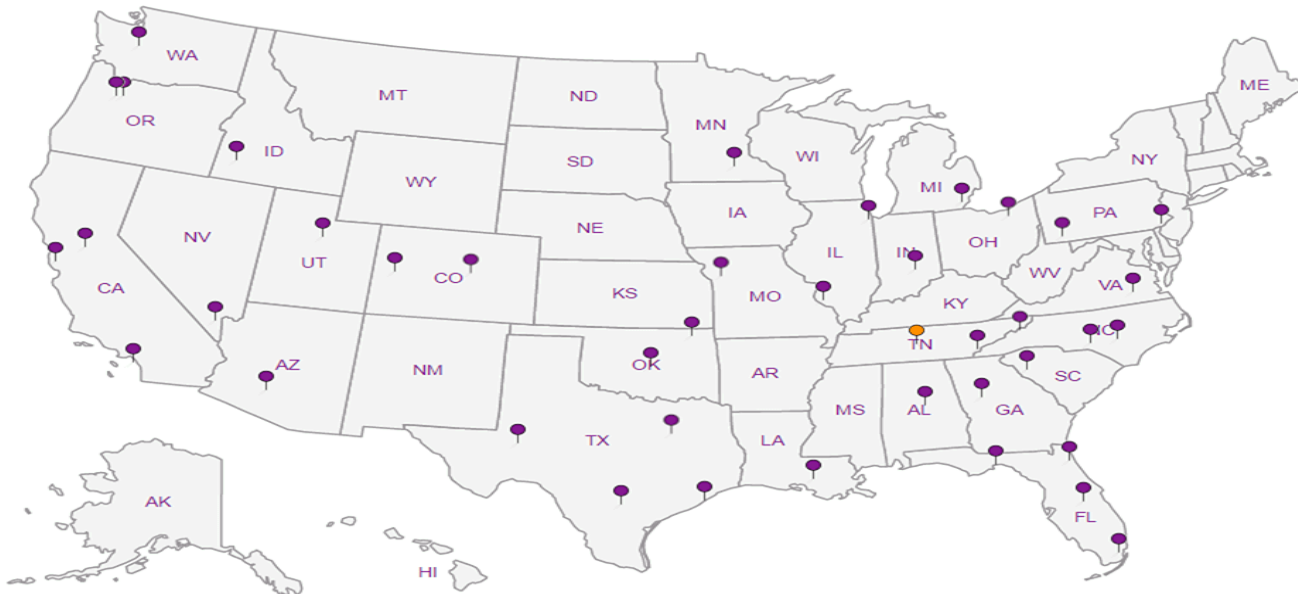
## Third Party Federal Accreditations

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

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**PES Environmental, Inc. -WA**  
**1215 4th Avenue STE 1350**  
**Seattle, WA 98161**

Billing Information:  
**Attn: Accounts Payable**  
**1215 4th 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: KVIK@PESENV.COM, BHALDEMAN@PESENV.COM  
**BOneal@pesenv.com** KPRINGSTEAD@PESENV.COM

Project **American Linen**  
 Description:

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):  
K. Zygas

Site/Facility ID #  
**American Linen**

P.O. #

Collected by (signature):  
[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

Standard T.A.T.

No.  
 of  
 Cntrs

Immediately Packed on Ice N  Y  X

| Sample ID         | Comp/Grab | Matrix * | Depth | Date   | Time | No. of Cntrs | *NO3, SO4, Cl* 125mIHDPE-NoPres | Alkalinity 125mIHDPE-NoPres | EEM (RSK175LL) 40mIamb-HCl | TOC 250mIamb-HCl | Total Fe Mn 6020 250mIHDPE-HNO3 | VOC (8260) | GRO (NWTPH-Gx) |
|-------------------|-----------|----------|-------|--------|------|--------------|---------------------------------|-----------------------------|----------------------------|------------------|---------------------------------|------------|----------------|
| MW120-050319      | Grab      | GW       | 45    | 5/3/19 | 0900 | 12           | X                               | X                           | X                          | X                | X                               | X          | X              |
| MW911-050319      | Grab      | GW       | 45    | ↓      | 1010 | 12           | X                               | X                           | X                          | X                | X                               | X          | X              |
| TRIP BLANK-050319 | Grab      | GW       | —     | ↓      | —    | 1            |                                 |                             |                            |                  |                                 | X          | X              |
|                   | Grab      | GW       |       |        |      |              |                                 |                             |                            |                  |                                 |            |                |
|                   | Grab      | GW       |       |        |      |              |                                 |                             |                            |                  |                                 |            |                |
|                   | Grab      | GW       |       |        |      |              |                                 |                             |                            |                  |                                 |            |                |
|                   | Grab      | GW       |       |        |      |              |                                 |                             |                            |                  |                                 |            |                |
|                   | Grab      | GW       |       |        |      |              |                                 |                             |                            |                  |                                 |            |                |
|                   | Grab      | GW       |       |        |      |              |                                 |                             |                            |                  |                                 |            |                |

L# 11095349

**B146**

Acctnum:  
 Template:  
 Prelogin:  
 TSR:  
 PB:

Shipped Via:

Remarks Sample # (lab only)

-01  
 -02  
 -03

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

Remarks:  
TIER 2 QA/QC

Samples returned via:  
 UPS  FedEx  Courier

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 Headspace:  Y  N  
 Preservation Correct/Checked:  Y  N

**RAD SCREEN: <0.5 mR/hr**

Relinquished by: (Signature)  
[Signature]

Date: 5/3/19 Time: 1130

Received by: (Signature)

Trip Blank Received:  Yes  No  
 HCL / MeOH  
 TBR

Relinquished by: (Signature)

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature)

Temp: ASBF °C Bottles Received: 24  
5.2 ± .1 = 5.3

Relinquished by: (Signature)

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received for lab by: (Signature)  
[Signature]

Date: 5/4/19 Time: 0245

If preservation required by Login: Date/Time

Hold: \_\_\_\_\_ Condition: NCF / OK





Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 217000 |           | 2710 | 20000 | 1        | 05/10/2019 16:24 | <a href="#">WG1278682</a> |

Sample Narrative:

L1095349-01 WG1278682: Endpoint pH 4.5

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 20500  |           | 51.9 | 1000 | 1        | 05/04/2019 16:56 | <a href="#">WG1276067</a> |
| Nitrate  | 2010   |           | 22.7 | 100  | 1        | 05/04/2019 16:56 | <a href="#">WG1276067</a> |
| Sulfate  | 66200  |           | 77.4 | 5000 | 1        | 05/04/2019 16:56 | <a href="#">WG1276067</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier    | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|--------------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |              | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 1660   | <del>B</del> | 102  | 1000 | 1        | 05/06/2019 17:49 | <a href="#">WG1276616</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------|------|------|----------|------------------|---------------------------|
|           | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Iron      | 2310   | J         | 75.0 | 500  | 5        | 05/07/2019 22:02 | <a href="#">WG1275860</a> |
| Manganese | 384    |           | 1.25 | 25.0 | 5        | 05/07/2019 22:02 | <a href="#">WG1275860</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier       | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |                 | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | 111    | J+ <del>B</del> | 31.6 | 100      | 1        | 05/07/2019 17:48 | <a href="#">WG1277188</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 85.3   |                 |      | 78.0-120 |          | 05/07/2019 17:48 | <a href="#">WG1277188</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 157    | J         | 0.287 | 0.678 | 1        | 05/09/2019 13:42 | <a href="#">WG1277421</a> |
| Ethane  | U      |           | 0.296 | 1.29  | 1        | 05/09/2019 13:42 | <a href="#">WG1277421</a> |
| Ethene  | U      |           | 0.422 | 1.27  | 1        | 05/09/2019 13:42 | <a href="#">WG1277421</a> |

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        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |
| Benzene              | U      |           | 0.0896 | 0.500 | 1        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |
| Bromomethane         | U      |           | 0.157  | 2.50  | 1        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |
| Carbon disulfide     | U      |           | 0.101  | 0.500 | 1        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |
| Carbon tetrachloride | U      |           | 0.159  | 0.500 | 1        | 05/08/2019 16:44 | <a href="#">WG1277852</a> |

JC 5/16/19

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Chloroethane                   | U              |           | 0.141       | 2.50        | 1        | 05/08/2019 16:44        | WG1277852 |
| Chloroform                     | U              |           | 0.0860      | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 05/08/2019 16:44        | WG1277852 |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,1-Dichloroethane             | 1.70           |           | 0.114       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,1-Dichloroethene             | 0.812          |           | 0.188       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| cis-1,2-Dichloroethene         | 87.2           |           | 0.0933      | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| trans-1,2-Dichloroethene       | 0.258          | J U       | 0.152       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 05/08/2019 16:44        | WG1277852 |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 05/08/2019 16:44        | WG1277852 |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 05/08/2019 16:44        | WG1277852 |
| 2-Hexanone                     | U              |           | 0.757       | 5.00        | 1        | 05/08/2019 16:44        | WG1277852 |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 05/08/2019 16:44        | WG1277852 |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 05/08/2019 16:44        | WG1277852 |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 05/08/2019 16:44        | WG1277852 |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 05/08/2019 16:44        | WG1277852 |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 05/08/2019 16:44        | WG1277852 |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 05/08/2019 16:44        | WG1277852 |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,1,2-Trichlorotrifluoroethane | 0.477          | J U       | 0.164       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Tetrachloroethene              | 155            |           | 0.199       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,1,1-Trichloroethane          | 0.261          | J U       | 0.0940      | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Trichloroethene                | 46.9           |           | 0.153       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| Trichlorofluoromethane         | U              |           | 0.130       | 2.50        | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 05/08/2019 16:44        | WG1277852 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/16/19



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

| Analyte                          | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|----------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Vinyl acetate                    | U              |           | 0.645       | 5.00        | 1        | 05/08/2019 16:44        | <a href="#">WG1277852</a> |
| Vinyl chloride                   | 1.28           |           | 0.118       | 0.500       | 1        | 05/08/2019 16:44        | <a href="#">WG1277852</a> |
| Xylenes, Total                   | U              |           | 0.316       | 1.50        | 1        | 05/08/2019 16:44        | <a href="#">WG1277852</a> |
| <i>(S) Toluene-d8</i>            | 92.8           |           |             | 80.0-120    |          | 05/08/2019 16:44        | <a href="#">WG1277852</a> |
| <i>(S) 4-Bromofluorobenzene</i>  | 93.5           |           |             | 77.0-126    |          | 05/08/2019 16:44        | <a href="#">WG1277852</a> |
| <i>(S) 1,2-Dichloroethane-d4</i> | 103            |           |             | 70.0-130    |          | 05/08/2019 16:44        | <a href="#">WG1277852</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 5/16/19





Wet Chemistry by Method 2320 B-2011

| Analyte    | Result | Qualifier | MDL  | RDL   | Dilution | Analysis         | Batch                     |
|------------|--------|-----------|------|-------|----------|------------------|---------------------------|
|            | ug/l   |           | ug/l | ug/l  |          | date / time      |                           |
| Alkalinity | 217000 |           | 2710 | 20000 | 1        | 05/10/2019 16:31 | <a href="#">WG1278682</a> |

Sample Narrative:

L1095349-02 WG1278682: Endpoint pH 4.5

Wet Chemistry by Method 9056A

| Analyte  | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------|--------|-----------|------|------|----------|------------------|---------------------------|
|          | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Chloride | 20300  |           | 51.9 | 1000 | 1        | 05/04/2019 17:11 | <a href="#">WG1276067</a> |
| Nitrate  | 1960   |           | 22.7 | 100  | 1        | 05/04/2019 17:11 | <a href="#">WG1276067</a> |
| Sulfate  | 65900  |           | 77.4 | 5000 | 1        | 05/04/2019 17:11 | <a href="#">WG1276067</a> |

Wet Chemistry by Method 9060A

| Analyte                    | Result | Qualifier    | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|----------------------------|--------|--------------|------|------|----------|------------------|---------------------------|
|                            | ug/l   |              | ug/l | ug/l |          | date / time      |                           |
| TOC (Total Organic Carbon) | 1580   | <del>B</del> | 102  | 1000 | 1        | 05/06/2019 18:04 | <a href="#">WG1276616</a> |

Metals (ICPMS) by Method 6020B

| Analyte   | Result | Qualifier       | MDL   | RDL  | Dilution | Analysis         | Batch                     |
|-----------|--------|-----------------|-------|------|----------|------------------|---------------------------|
|           | ug/l   |                 | ug/l  | ug/l |          | date / time      |                           |
| Iron      | 1120   | J <del>Q1</del> | 15.0  | 100  | 1        | 05/07/2019 14:18 | <a href="#">WG1275860</a> |
| Manganese | 346    |                 | 0.500 | 10.0 | 2        | 05/07/2019 21:48 | <a href="#">WG1275860</a> |
| Manganese | 321    | R <del>Q1</del> | 0.250 | 5.00 | 1        | 05/07/2019 14:18 | <a href="#">WG1275860</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier       | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |                 | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | 138    | J+ <del>B</del> | 31.6 | 100      | 1        | 05/08/2019 15:33 | <a href="#">WG1277738</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 85.2   |                 |      | 78.0-120 |          | 05/08/2019 15:33 | <a href="#">WG1277738</a> |

Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result | Qualifier       | MDL   | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------------|-------|-------|----------|------------------|---------------------------|
|         | ug/l   |                 | ug/l  | ug/l  |          | date / time      |                           |
| Methane | 115    | J <del>Q1</del> | 0.287 | 0.678 | 1        | 05/09/2019 13:45 | <a href="#">WG1277421</a> |
| Ethane  | U      |                 | 0.296 | 1.29  | 1        | 05/09/2019 13:45 | <a href="#">WG1277421</a> |
| Ethene  | U      |                 | 0.422 | 1.27  | 1        | 05/09/2019 13:45 | <a href="#">WG1277421</a> |

JC 5/16/19

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        | 05/08/2019 17:03 | <a href="#">WG1277852</a> |
| Acrylonitrile        | U      |           | 0.873  | 5.00  | 1        | 05/08/2019 17:03 | <a href="#">WG1277852</a> |
| Benzene              | U      |           | 0.0896 | 0.500 | 1        | 05/08/2019 17:03 | <a href="#">WG1277852</a> |
| Bromobenzene         | U      |           | 0.133  | 0.500 | 1        | 05/08/2019 17:03 | <a href="#">WG1277852</a> |
| Bromodichloromethane | U      |           | 0.0800 | 0.500 | 1        | 05/08/2019 17:03 | <a href="#">WG1277852</a> |
| Bromochloromethane   | U      |           | 0.145  | 0.500 | 1        | 05/08/2019 17:03 | <a href="#">WG1277852</a> |
| Bromoform            | U      |           | 0.186  | 0.500 | 1        | 05/08/2019 17:03 | <a href="#">WG1277852</a> |
| Bromomethane         | U      |           | 0.157  | 2.50  | 1        | 05/08/2019 17:03 | <a href="#">WG1277852</a> |
| n-Butylbenzene       | U      |           | 0.143  | 0.500 | 1        | 05/08/2019 17:03 | <a href="#">WG1277852</a> |
| sec-Butylbenzene     | U      |           | 0.134  | 0.500 | 1        | 05/08/2019 17:03 | <a href="#">WG1277852</a> |
| tert-Butylbenzene    | U      |           | 0.183  | 0.500 | 1        | 05/08/2019 17:03 | <a href="#">WG1277852</a> |
| Carbon disulfide     | U      |           | 0.101  | 0.500 | 1        | 05/08/2019 17:03 | <a href="#">WG1277852</a> |

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<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| Carbon tetrachloride           | U              |           | 0.159       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| Chlorobenzene                  | U              |           | 0.140       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| Chlorodibromomethane           | U              |           | 0.128       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| Chloroethane                   | U              |           | 0.141       | 2.50        | 1        | 05/08/2019 17:03        | WG1277852 |
| Chloroform                     | 0.142          | J U       | 0.0860      | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| Chloromethane                  | U              |           | 0.153       | 1.25        | 1        | 05/08/2019 17:03        | WG1277852 |
| 2-Chlorotoluene                | U              |           | 0.111       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| 4-Chlorotoluene                | U              |           | 0.0972      | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| 1,2-Dibromo-3-Chloropropane    | U              |           | 0.325       | 2.50        | 1        | 05/08/2019 17:03        | WG1277852 |
| 1,2-Dibromoethane              | U              |           | 0.193       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| Dibromomethane                 | U              |           | 0.117       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| 1,2-Dichlorobenzene            | U              |           | 0.101       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| 1,3-Dichlorobenzene            | U              |           | 0.130       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| 1,4-Dichlorobenzene            | U              |           | 0.121       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| Dichlorodifluoromethane        | U              |           | 0.127       | 2.50        | 1        | 05/08/2019 17:03        | WG1277852 |
| 1,1-Dichloroethane             | 1.76           |           | 0.114       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| 1,2-Dichloroethane             | U              |           | 0.108       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| 1,1-Dichloroethene             | 0.866          |           | 0.188       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| cis-1,2-Dichloroethene         | 89.0           |           | 0.0933      | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| trans-1,2-Dichloroethene       | 0.227          | J U       | 0.152       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| 1,2-Dichloropropane            | U              |           | 0.190       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| 1,1-Dichloropropene            | U              |           | 0.128       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| 1,3-Dichloropropane            | U              |           | 0.147       | 1.00        | 1        | 05/08/2019 17:03        | WG1277852 |
| cis-1,3-Dichloropropene        | U              |           | 0.0976      | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| trans-1,3-Dichloropropene      | U              |           | 0.222       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| trans-1,4-Dichloro-2-butene    | U              |           | 0.257       | 5.00        | 1        | 05/08/2019 17:03        | WG1277852 |
| 2,2-Dichloropropane            | U              |           | 0.0929      | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| Di-isopropyl ether             | U              |           | 0.0924      | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| Ethylbenzene                   | U              |           | 0.158       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| Hexachloro-1,3-butadiene       | U              |           | 0.157       | 1.00        | 1        | 05/08/2019 17:03        | WG1277852 |
| 2-Hexanone                     | U              |           | 0.757       | 5.00        | 1        | 05/08/2019 17:03        | WG1277852 |
| n-Hexane                       | U              |           | 0.305       | 5.00        | 1        | 05/08/2019 17:03        | WG1277852 |
| Iodomethane                    | U              |           | 0.377       | 10.0        | 1        | 05/08/2019 17:03        | WG1277852 |
| Isopropylbenzene               | U              |           | 0.126       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| p-Isopropyltoluene             | U              |           | 0.138       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| 2-Butanone (MEK)               | U              |           | 1.28        | 5.00        | 1        | 05/08/2019 17:03        | WG1277852 |
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 05/08/2019 17:03        | WG1277852 |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 05/08/2019 17:03        | WG1277852 |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 05/08/2019 17:03        | WG1277852 |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| 1,1,2-Trichlorotrifluoroethane | 0.412          | J U       | 0.164       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| Tetrachloroethene              | 182            |           | 0.199       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| 1,1,1-Trichloroethane          | 0.290          | J U       | 0.0940      | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| Trichloroethene                | 51.1           |           | 0.153       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| Trichlorofluoromethane         | U              |           | 0.130       | 2.50        | 1        | 05/08/2019 17:03        | WG1277852 |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 05/08/2019 17:03        | WG1277852 |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 05/08/2019 17:03        | WG1277852 |

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

JC 5/16/19



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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| 1,3,5-Trimethylbenzene    | U              |           | 0.124       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Vinyl acetate             | U              |           | 0.645       | 5.00        | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Vinyl chloride            | 1.30           |           | 0.118       | 0.500       | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| Xylenes, Total            | U              |           | 0.316       | 1.50        | 1        | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| (S) Toluene-d8            | 95.2           |           |             | 80.0-120    |          | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| (S) 4-Bromofluorobenzene  | 94.1           |           |             | 77.0-126    |          | 05/08/2019 17:03        | <a href="#">WG1277852</a> |
| (S) 1,2-Dichloroethane-d4 | 102            |           |             | 70.0-130    |          | 05/08/2019 17:03        | <a href="#">WG1277852</a> |

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

JC 5/16/19



Collected date/time: 05/03/19 00:00

L1095349

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 05/08/2019 14:45 | <a href="#">WG1277738</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 85.2   |           |      | 78.0-120 |          | 05/08/2019 14:45 | <a href="#">WG1277738</a> |

- 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        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| Acrylonitrile               | U      |           | 0.873  | 5.00  | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| Benzene                     | U      |           | 0.0896 | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| Bromobenzene                | U      |           | 0.133  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| Bromodichloromethane        | U      |           | 0.0800 | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| Bromochloromethane          | U      |           | 0.145  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| Bromoform                   | U      |           | 0.186  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| Bromomethane                | U      |           | 0.157  | 2.50  | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| n-Butylbenzene              | U      |           | 0.143  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| sec-Butylbenzene            | U      |           | 0.134  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| tert-Butylbenzene           | U      |           | 0.183  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| Carbon disulfide            | U      |           | 0.101  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| Carbon tetrachloride        | U      |           | 0.159  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| Chlorobenzene               | U      |           | 0.140  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| Chlorodibromomethane        | U      |           | 0.128  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| Chloroethane                | U      |           | 0.141  | 2.50  | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| Chloroform                  | U      |           | 0.0860 | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| Chloromethane               | U      |           | 0.153  | 1.25  | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| 2-Chlorotoluene             | U      |           | 0.111  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| 4-Chlorotoluene             | U      |           | 0.0972 | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| 1,2-Dibromo-3-Chloropropane | U      |           | 0.325  | 2.50  | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| 1,2-Dibromoethane           | U      |           | 0.193  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| Dibromomethane              | U      |           | 0.117  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| 1,2-Dichlorobenzene         | U      |           | 0.101  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| 1,3-Dichlorobenzene         | U      |           | 0.130  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| 1,4-Dichlorobenzene         | U      |           | 0.121  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| Dichlorodifluoromethane     | U      |           | 0.127  | 2.50  | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| 1,1-Dichloroethane          | U      |           | 0.114  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| 1,2-Dichloroethane          | U      |           | 0.108  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| 1,1-Dichloroethene          | U      |           | 0.188  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| cis-1,2-Dichloroethene      | U      |           | 0.0933 | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| trans-1,2-Dichloroethene    | U      |           | 0.152  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| 1,2-Dichloropropane         | U      |           | 0.190  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| 1,1-Dichloropropene         | U      |           | 0.128  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| 1,3-Dichloropropane         | U      |           | 0.147  | 1.00  | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| cis-1,3-Dichloropropene     | U      |           | 0.0976 | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| trans-1,3-Dichloropropene   | U      |           | 0.222  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| trans-1,4-Dichloro-2-butene | U      |           | 0.257  | 5.00  | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| 2,2-Dichloropropane         | U      |           | 0.0929 | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| Di-isopropyl ether          | U      |           | 0.0924 | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| Ethylbenzene                | U      |           | 0.158  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| Hexachloro-1,3-butadiene    | U      |           | 0.157  | 1.00  | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| 2-Hexanone                  | U      |           | 0.757  | 5.00  | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| n-Hexane                    | U      |           | 0.305  | 5.00  | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| Iodomethane                 | U      |           | 0.377  | 10.0  | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| Isopropylbenzene            | U      |           | 0.126  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| p-Isopropyltoluene          | U      |           | 0.138  | 0.500 | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |
| 2-Butanone (MEK)            | U      |           | 1.28   | 5.00  | 1        | 05/08/2019 14:27 | <a href="#">WG1277852</a> |

JC 5/16/19



Collected date/time: 05/03/19 00:00

L1095349

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                                |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|--------------------------------------|
| Methylene Chloride             | U              |           | 1.07        | 2.50        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |
| 4-Methyl-2-pentanone (MIBK)    | U              |           | 0.823       | 5.00        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |
| Methyl tert-butyl ether        | U              |           | 0.102       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |
| Naphthalene                    | U              |           | 0.174       | 2.50        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |
| n-Propylbenzene                | U              |           | 0.162       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |
| Styrene                        | U              |           | 0.117       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.120       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.130       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.164       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |
| Tetrachloroethene              | U              |           | 0.199       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |
| Toluene                        | U              |           | 0.412       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |
| 1,2,3-Trichlorobenzene         | U              |           | 0.164       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |
| 1,2,4-Trichlorobenzene         | U              |           | 0.355       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |
| 1,1,1-Trichloroethane          | U              |           | 0.0940      | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |
| 1,1,2-Trichloroethane          | U              |           | 0.186       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |
| Trichloroethene                | U              |           | 0.153       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |
| Trichlorofluoromethane         | U              |           | 0.130       | 2.50        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |
| 1,2,3-Trichloropropane         | U              |           | 0.247       | 2.50        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |
| 1,2,4-Trimethylbenzene         | U              |           | 0.123       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |
| 1,2,3-Trimethylbenzene         | U              |           | 0.0739      | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |
| 1,3,5-Trimethylbenzene         | U              |           | 0.124       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |
| Vinyl acetate                  | U              |           | 0.645       | 5.00        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |
| Vinyl chloride                 | U              |           | 0.118       | 0.500       | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |
| Xylenes, Total                 | U              |           | 0.316       | 1.50        | 1        | 05/08/2019 14:27        | <a href="#">WG1277852</a> JC 5/16/19 |
| (S) Toluene-d8                 | 94.0           |           |             | 80.0-120    |          | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |
| (S) 4-Bromofluorobenzene       | 94.3           |           |             | 77.0-126    |          | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |
| (S) 1,2-Dichloroethane-d4      | 105            |           |             | 70.0-130    |          | 05/08/2019 14:27        | <a href="#">WG1277852</a>            |

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